



Invoice

4439 - 2nd Avenue
Edson, AB T7E 1C1
Tel: 780-723-7292
Fax: 780-723-3324

NUMBER	DATE	PAGE
SVR99214400	10-MAY-2013	1 of 2
BUS. PARTNER #	SALES PERSON	
400369 3		

INVOICE TO

Husky Oil Operations Limited
PO Box 4490 Station D
Calgary, AB T2P 3G7

ORDER	ORDER DATE
PFS132591	25-FEB-2013
CUSTOMER ORDER	
8400597839	
REFERENCE A	
REFERENCE B	

SOLD TO

Husky Oil Operations Limited
03-06-49-18-W5M

SHIP TO

Husky Oil Operations Limited
03-06-49-18-W5M

CODE	DESCRIPTION	QTY	PRICE	DISCOUNT	COVERAGE	AMOUNT
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GAS DRIVE BRANCH #65

ORDERED BY: JASON WILLIAMS
PHONE: (780) 723-6945

TRAVEL TO HUSKY OIL LSD# 03-06-49-18-W5M MINEHEAD C250 TO PERFORM A
SERVICE/TUNEUP ON A WAUKESHA L5774LTE, S/N# C-15334/1. BORESCOPE UNIT.

TUESDAY, MARCH 5, 2013

CL102358
050021

UNIT HOURS: 8,390

APPROVER: 2Z-2021237
PO: 8400597839
AFE: 26025
ACCOUNT CODE: 81676
SIGNATURE: BOB CHOUINARD

ARIEL COMPRESSOR
WAUKESHA GAS ENGINE

COMJGK-4 S/N: F-20924
COML5774LTE S/N: C-15334/1

ACTIVITY 10 - ENGINE SERVICE/TUNEUP

LABOR

100	Field REG	20	96.80			1,936.00
101	Field OT	2.5	130.68	196.02		130.68
	Discounted 1.5 hours.					
130	Travel REG AB, Sask, Ont, US	5	96.80	290.40		193.60
	Discounted 3 hours.					

MATERIAL

PAM-CONS	Consumable Supplies	1	103.33			103.33
PAM-HDKM	Kilometer Chrg (full size Truc	90	1.40			126.00

ACTIVITY 10 SUBTOTAL 2,489.61

CARRY FORWARD: 2,489.61

**Invoice**

NUMBER	DATE	PAGE
SVR99214400	10-MAY-2013	2 of 2

CODE	DESCRIPTION	QTY	PRICE	DISCOUNT	COVERAGE	AMOUNT
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ACTIVITY 20 - PARTS

MATERIAL						
ARLA-0661	LO FILTER ELEMENT,SPIN-ON	3	11.69			35.07
BS0168922N	O RING,17.0X17.5X.25,NITRILE	1	12.75			12.75
PAM168660B	ELEMENT FILT LUB OIL	7	14.41			100.87
PAM55K80	GASKET	2	3.86			7.72
VOR21613	FILTER, STEEL WOOL	1	29.68			29.68
WAU740011	BOOT,HIGH TEMP (.5 ID)	12	7.51			90.12
WAUG-962-1600	CENTRIFUGE CLEANING KIT	1	100.16			100.16

ACTIVITY 20 SUBTOTAL 376.37

Total Material 605.70
Total Labor 2,260.28
Total Other 0.00

TAX SUMMARY

TAX AUTHORITY	RATE	EXEMPTION #	TAX AMOUNT
GST #84729 1085 RT0001	5.00		\$143.30

TERMS & CONDITIONS ON REVERSE: Net 30 days
PAYMENT DUE DATE: 09-JUN-2013

Please Remit To:
Lockbox #C3184
Gas Drive Global LP
P.O. Box 9187, Station "M"
Calgary, AB T2P 5E1

SUBTOTAL	\$2,865.98
TAX	\$143.30
TOTAL	\$3,009.28 CAD

SERVICEMAN WZ		ASSISTANT TECHNICIAN DAVID V.	
JOB DESCRIPTION SERVICE ENGINE & COMPRESSOR			
CUSTOMER Husky	W/O # PFS132591	LOCATION MINNEHEAD	DATE TUES 10 MAR 5/13
L.S.D. # 3-6-49-18W5	CUSTOMER UNIT # C 250	MFGR. EFX	UNIT #
ENG. MODEL L5774 LTE	SERIAL # C15334/1	SPEC.	RUN HRS. 8390
COMP/GEN. MODEL JGK 4	SERIAL # F 20924		INT. MFLD VAC/PRESS

WORK PERFORMED

UNIT DOWN ON ARRIVAL. RE-CHECK ENGINE FOR COOLANT IN OIL. BORESCOPE CYLS, NO LEAKS, DETONATION, SCURCES, X-HATCH OK. CHECK INTERCOOLER, NO LEAKS INTO AIR OUT. CHECK WATER COOLED TURBOS FOR COOLANT IN TURBO OIL DRAIN LINE. ALL OK. SET VALVES & BRIDGES. ~~SPARK~~ CHANGE ENGINE & COMPRESSOR OIL & FILTERS, SPARK PLUGS, C/L BREATHER SEALS. START & LOAD UNIT. CHANGE BATTERIES ON Cyl 2 & 4 PRO FLOW DO RUN CHECKS. UNIT ON LINE.

TUNE-UP ENGINE

LABOUR							TRAVEL LABOUR				TRUCK UNIT # 31013	
START	FINISH	REGULAR	OT 1.5	OT 2.0	ACCOMMODATIONS	SUBSISTENCE	START	FINISH	REGULAR	OT 1.5	OT 2.0	KM
7 ⁰⁰	7 ³⁰		0.5				7 ³⁰	8 ³⁰	1.0			90K
8 ³⁰	12 ⁰⁰	3.5										
12 ³⁰	15 ³⁰	3.0										
TOTAL		6.5					TOTAL		1.0			90

Approver: **22-201676**
 Location: **3-06-49-18W5**
 PO: **8400597839**
 CC/AFE: **26025**
 Account Code: **81676**
 Description: **As above**
 Signature: **[Signature]**
 Ryan Charles

SPECIALTY TOOLING RATES

SPECIALTY TOOLING RATES PER USAGE EFFECTIVE MAY 1, 2010			
LASER OPTIC ALIGNMENT (SEOOA)	\$ 250.00	CAT 3600 HYDRAULIC TORQUING EQUIPMENT (SE QTE)	\$ 250.00
AT SULZER HYDRAULIC TORQUING EQUIPMENT (SEOTE)	\$ 250.00	AIR OPERATED ENGINE BARRING DEVICE (SEQBD)	\$ 100.00

PST & GST ARE EXTRA - PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

CUSTOMER	DATE
PLEASE PRINT Wayne Zielarski	SIGNATURE [Signature]
SERVICE TECH.	EMPL. #
PLEASE PRINT Wayne Zielarski	SIGNATURE [Signature]
	296



SERVICEMAN Derek Kallal		ASSISTANT TECHNICIAN Wayne David	
JOB DESCRIPTION EUG Service			
CUSTOMER Husky	W/O # PFS132591	LOCATION Mine head	DATE TUES 10 March 5/13
L.S.D. # 3-6-49-18	CUSTOMER UNIT # C-253	MFGR.	UNIT #
ENG. MODEL C5774LT	SERIAL # C-1533411	SPEC.	RUN HRS. 8390
COMP/GEN. MODEL JGK-4	SERIAL # F-20924	INT. MFLD VAC/PRESS	

WORK PERFORMED

load parts travel to get permit unit was down drain oil Dore scope
Set valves change spark plugs inspect belts and pump check air filters and
turbos check turbos for coolant leak pull side do look for liners leak. Change
oil and filters change oil and filters on comp. Start unit do running checks
everything baked good.

Approver: **27 2016762**
Location: **3-06-49-18 north side**
PO: **7400 597839**
AFE: **26025**
Account Code: **31676**
Description: **Service**
Signature: **[Signature]**

TUNE-UP ENGINE

LABOUR							TRAVEL LABOUR				TRUCK UNIT #		
START	FINISH	REGULAR	OT 1.5	OT 2.0	ACCOMMODATIONS	SUBSISTENCE	START	FINISH	REGULAR	OT 1.5	OT 2.0	KM	
8.0	12.0	4.0					7.0	8.0	1.0				
12.5	15.5	3.0											
TOTAL		7.0					TOTAL		1.0				

Bob Chouinard

SPECIALTY TOOLING RATES

SPECIALTY TOOLING RATES PER USAGE EFFECTIVE MAY 1, 2010			
LASER OPTIC ALIGNMENT (SEQOA)	\$ 250.00	CAT 3600 HYDRAULIC TORQUING EQUIPMENT (SE QTE)	\$ 250.00
AT SULZER HYDRAULIC TORQUING EQUIPMENT (SEQTE)	\$ 250.00	AIR OPERATED ENGINE BARRING DEVICE (SEQBD)	\$ 100.00
PST & GST ARE EXTRA - PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE			

CUSTOMER	DATE March 5/13
SERVICETECH. Derek Kallal	EMPL. # 7482



SERVICEMAN <i>David Valliere</i>		ASSISTANT TECHNICIAN <i>Wayne Z</i>	
JOB DESCRIPTION <i>Service engine</i>			
CUSTOMER <i>Husky Mine Head</i>	W/O # <i>PFS132591</i>	LOCATION <i>minehead</i>	DATE <i>TUES @ march 5/13</i>
L.S.D. # <i>3-6-49-18w5</i>	CUSTOMER UNIT # <i>C250</i>	MFGR. <i>EFX</i>	UNIT #
ENG. MODEL <i>L5774 LTE</i>	SERIAL # <i>C15334/1</i>	SPEC.	RUN HRS <i>8390</i>
COMP/GEN. MODEL <i>JGK 4</i>	SERIAL # <i>F20224</i>	INT. MFLD VAC/PRESS	

WORK PERFORMED

*Unit down on Arrival - Re-check engine for coolant in oil.
Borescope cylinders, no leaks, Detonation, SCUFFS, X-Hold ok.
Check intercooler, no leaks into air out, check water cooled turbos
for coolant in turbo oil drain line, all ok. Set valves & Bridges
change engine + compressor oil + filters, spark plugs, ck breathe seals
Change batteries on 24 Pro Flow, do run checks*

Approver: 22 *2016762*
Location: *3-06-49-18 north side*
PO: *3900597839*
AFE: *26025*
LABOUR
Account Code: *31676*
Description: *Service*
Signature: *[Signature]*

TUNE-UP ENGINE

LABOUR					TRAVEL LABOUR			TRUCK UNIT #			
START	FINISH	REGULAR	OT 1.5	ACCOMMODATIONS	SUBSISTENCE	START	FINISH	REGULAR	OT 1.5	OT 2.0	KM
7:00	7:30					7:30	8:30	1.0			
8:30	12:00	3.0									
12:30	15:30	3.0									
TOTAL		6.0	0.5			TOTAL		1.0			

Signature: *Bob Chouinard*

SPECIALTY TOOLING RATES

SPECIALTY TOOLING RATES PER USAGE EFFECTIVE MAY 1, 2010			
LASER OPTIC ALIGNMENT (SEOOA)	\$ 250.00	CAT 3600 HYDRAULIC TORQUING EQUIPMENT (SE QTE)	\$ 250.00
AT SULZER HYDRAULIC TORQUING EQUIPMENT (SEQTE)	\$ 250.00	AIR OPERATED ENGINE BARRING DEVICE (SEQBD)	\$ 100.00

PST & GST ARE EXTRA - PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

CUSTOMER <i>David Valliere</i>	PLEASE PRINT	SIGNATURE <i>David Valliere</i>	DATE
SERVICE TECH. <i>David Valliere</i>	PLEASE PRINT	SIGNATURE <i>David Valliere</i>	EMPL. # <i>8056</i>



SERVICEMAN Jordan Brown		ASSISTANT TECHNICIAN	
JOB DESCRIPTION inspect for leak			
CUSTOMER Husky		W/O # PFS132591	LOCATION mhc head
L.S.D. # 3-6-49-18		CUSTOMER UNIT #	UNIT #
ENG. MODEL LS774 LTE		SERIAL # C153311	RUN HRS.
COMP/GEN. MODEL 56K-4		SERIAL # F20724	INT. MFLD VAC/PRESS

WORK PERFORMED

travel to site inspect unit for oil leaks
travel to edson.

Approver: 27-2016762
 Location: 3-06-49-17
 PO: 7400597839
 AFE: 26025
 Account Code: 71676
 Description: Check out C-250
 Signature: 
 Bob Chouinard

TUNE-UP ENGINE

TUNE-UP ENGINE										TRUCK UNIT #		
LABOUR							TRAVEL LABOUR					
START	FINISH	REGULAR	OT 1.5	OT 2.0	ACCOMMODATIONS	SUBSISTENCE	START	FINISH	REGULAR	OT 1.5	OT 2.0	KM
8:30	10:00		1.5				7:30	8:30	1.0			
							10:00	11:00	1.0			
TOTAL			1.5				TOTAL		2.0			

SPECIALTY TOOLING RATES

SPECIALTY TOOLING RATES PER USAGE EFFECTIVE MAY 1, 2010			
LASER OPTIC ALIGNMENT (SEQOA)	\$ 250.00	CAT 3600 HYDRAULIC TORQUING EQUIPMENT (SE QTE)	\$ 250.00
AT SULZER HYDRAULIC TORQUING EQUIPMENT (SEOTE)	\$ 250.00	AIR OPERATED ENGINE BARRING DEVICE (SEQBD)	\$ 100.00
PST & GST ARE EXTRA - PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE			

CUSTOMER _____ PLEASE PRINT		DATE Mar 9/13
SERVICE TECH. <u>Jordan Brown</u> PLEASE PRINT		EMPL. # 4590
SIGNATURE 		SIGNATURE



CUSTOMER NAME <u>Husky</u>		CUSTOMER CONTACT <u>JASON WILLIAMS</u>	
SITE <u>MINEHEAD</u>	L.S.D. # <u>3-6-49-18 W5.</u>	W/O # <u>PFS132591</u>	UNIT <u>C250</u> DATE <u>MAR 5/13</u>

COMPRESSOR

Manufacturer <u>ARIEL</u>
Model <u>JGK 4</u>
Serial # <u>F-20924</u>
Spec.
Hours <u>8390</u>

COMPRESSOR

Oil Change ☒ YES ☐ NO
Oil Sample # ☒ Oil Pressure

ENGINE

Manufacturer <u>DAIKESHA</u>
Model <u>L5774LTE</u>
Serial # <u>C15334/1</u>
Spec.
Hours <u>8390</u>

ENGINE

Oil Change ☐ YES ☐ NO
Oil Sample # ☒ Oil Pressure

GEAR BOX

Oil Change ☐ YES ☐ NO
Oil Sample # Oil Pressure

FINAL SETTINGS

MAINTENANCE ITEMS	REPLACED		INSPECT
	YES	NO	
Spark Plugs	☒		
Extensions			☒
Fuel Filters		☒	
Air Filters			☒
Coils			☒
Secondary Leads			☒
Primary Leads			☒
Hydraulic Lifters			☒
Valve Cover Gaskets			☒
Fuel Admission Valves GL			
Carb Diaphragm LB		☒	
Carb Diaphragm RB		☒	
Carb Butterflies			
Governor			☒
Governor Linkage			☒
Main Water Pump Belts			☒
Auxiliary Water Pump Belts			☒
Engine to Jackshaft Belts			☒
Jackshaft to Cooler Dr. Belts			☒
Cooler Belts			☒
Jackshaft Bearings			☒
Fanshaft Belts			
Idler Bearings			
EXH Temperature	LB	RB	
1	568	588	
2	580	583	
3	587	576	
4	576	559	
5	585	567	
6	559	570	
7			
8			

RPM	1150			
Primary Fuel Pressure	60	PSI		
Gas over Air @ Idle	RB	" H ₂ O	LB	" H ₂ O
Gas over Air @ Load	RB	6"	" H ₂ O	LB 5-7" " H ₂ O
Lean Burn Prechamber Fuel @ Idle	▲ P	" Hg		
Manifold Pressure	RB	16"	" Hg	LB 15.5" " Hg
Turbo Reserve Pressure	RB	18"	" Hg	LB 18" " Hg
Crankcase Pressure	-1"	" H ₂ O		
Jacket Water Temperature	In 45	° F / (C)	Out 75	° F / (C)
Oil Temperature	81	° F / (C)		
Ignition Timing	RB	20°	LB	°
Exhaust O ₂ (Lean Burn)	RB	7.5 @ 1800	RB	7.5 @ 1500
Exhaust CO (Rich Burn)	RB	CO	LB	CO
Exhaust Back Pressure		" H ₂ O		
Valve Setting	In	/	Ex	/
Spark Plug Gap		.012		
Lube Rates	RB		LB	
Packing Vents	☒ YES		NO	
Valve Temps	☒ YES		NO	
Bearings Greased	☒ YES		NO	

ENGINE COMPRESSION CHECK PERFORMED ☐ YES ☒ NO

	#1	#2	#3	#4	#5	#6	#7	#8
Right Bank Cylinders								
Left Bank Cylinders								

COMMENTS BORESCOPE Cyls All OK. No sign
OF COOLANT LEAK.
CHANGE COMPRESSOR OIL & FILTERS

SERVICE TECH. _____ PLEASE PRINT

SIGNATURE _____