REPAIR SUMMARY REPORT



Whitecourt, AB

Job#: 2883097SR-27.0

(0)

Customer: Facility/Loc: Cust PO: Husky Oil Operations Ltd.

Product: Relief Valve

TBA

Service Req'd: Repair Received: 11-Sep-2017

Cust Ref: PSV 172

Seal:IntactCode Case :Seal ID:RMVCode Symbol:

EQUIPMENT DATA

 Mfr:
 Taylor

 Model:
 82E4351311

 CRN #:
 0G1316.2C

 Serial No:
 33143-54

 Inlet Size:
 1" MNPT

 Orifice:
 E

 Outlet Size:
 1" FNPT

Body Mat: Carbon Steel
Bonnet Mat: Carbon Steel
Trim Mat:
Soft Seat Mat: Viton
Cap Type: Plain
Spring: LT.GREEN

 Service:
 Compressible

 Set Pressure:
 175.00 PSIG

 CDTP:
 0.00

 Capacity:
 671 SCFM

 Temp:
 0

 Constant BP:
 0

 Variable BP:
 0

NB

UV

PRE-TEST

180 PSIG

175 PSIG

178 PSIG

Pre-tested: YES
Pre-test By: Josh Bougie
Leaked: NO

Pre-test 1: Pre-test 2: Pre-test 3: Fittings: NO Shipping Crate: NO Inlet: Oily

Outlet:

Oily

Pre-test Note: PWL

CRITICAL DIMENSIONS

NOZZLE	Mfr Spec	As Found	DISC	Mfr Spec	As Found	<u>OTHER</u>	Mfr Spec	As Found
Length	0.000		Thickness	0.000		Spindle/Collar	0.000	
Seat Step	0.000		Inside Step	0.000		•		
Seat ID	0.000		OutsideStep	0.000				
Seat OD	0.000		Seat	0.000				

PARTS EVALUATION

				_	_	_	
<u>PARTNAME</u>	CLEAN	<u>OILY</u>	RUSTY (CARBON	<u>OTHER</u>	CONDITION	WORK PERFORMED
Disc		$\overline{\checkmark}$				Worn	Replace
Nozzle		\checkmark				Worn	Replace
Cap-lever Assy							
Comp Screw And Locknut	☐ ☑						
Spring And Buttons		☑ ☑				Dirty	Cleaned/Reuse
Spindle / Stem		\checkmark				Dirty	Cleaned/Reuse
Stem Retainer							
Disc Holder							
Guide / Upper Ring		$\overline{\checkmark}$				Dirty	Cleaned/Reuse
Lower Ring							
Ring Pin(S)						***	5 .
Gasket / Seals		\square	브		브	Worn	Replace
Connection Ends			닏		닏		
TAG ID #'S			닏		닏	Diete	Classed/Daviss
Body Base	님	☑	님		님	Dirty	Cleaned/Reuse Cleaned/Reuse
Dase	Ц	$\overline{\checkmark}$			Ш	Dirty	Clearleu/Reuse

Disassembled By: Josh Bougie Inspected By: Savannah Feist Assembled By: Josh Bougie

Gauge 1:

FINAL TEST

TW4D

Date Tested:12-Sep-2017Test Method:BenchSet Definition:PopTest Media:AirTested By:Savannah Feist

Gauge 2: TW16
Perform BP Test: Yes
Back Pressure: 30 PSIG
BP Gauge: TW19D

Final Set Pressure: 175.00 PSIG
Leakage Rate: 0 BPM
Upper BlowDown Ring: N/A
Lower BlowDown Ring: N/A
Seat Tightness Test: 160.00 PSIG

0

0

0

Pilot Type: Pilot Gauge 1: Pilot Final Set Pressure: Pilot Test Fluid: Pilot Gauge 2: Pilot Gauge 2: Pilot Seat Tightness Test:

FINAL INSPECTION

Shipment Check: Seals Intact, End Protectors Installed, Painted, Service/Repair Tags Verified

Final Inspection: Josh Bougie VR Tag Applied By:

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(no photo)

Part Name: Condition:

TAG ID #'S

Work Perf'd:

Notes:

W-38527 LSD: BIG STONE

REPAIR SUMMARY REPORT

SPARTAN Controls

Whitecourt, AB

Job#: 2883097SR-27.0



Definitions

Wear and Conditions

Bent - Altered from an originally straight or even condition.

Blown - (Specific to bellows) pressure has exceeded the operational limits of the bellows and has resulted in the catastrophic failure of the part.

Catastrophic Wear - Rapidly occurring or accelerating surface damage, deterioration, or change of shape caused by wear to such a degree that the service life of the part is appreciably shortened or its function is destroyed.

Collapsed - (Specific to Farris gaskets) the corrugations in the metal gasket are no longer functioning to form part of the seal.

Corrosion - the gradual destruction of metal due to a chemical reaction with the environment characterized by rust, pitting and pinhole porosity

Cracked - a break without the complete separation of parts.

Dirty -requires cleaning only.

Eroded - a form of wear in which there is a progressive loss of original material from a solid surface due to mechanical interaction between that surface and a fluid.

Galling - A form of surface damage arising between two sliding solids, distinguished by roughening, and the creation of protrusions above the original surface and may involve material transfer.

Marked -surface is showing abrasions that will alter or hinder valve performance.

Missing - There is a part listed on the manufacturers parts list, critical to the designed operation, which has been found absent and unaccounted for.

Nonconcentric - the deformation of a circular part in which there is an absence of a common center.

Non-OEM - a part identified as not being from the original equipment manufacturer.

Out of Tolerance - a specific dimension has been determined to be out of the stated acceptable range listed by the manufacturer.

Pinhole Porosity - small spaces in a material characterized by small holes appearing porous; compromising the isolation of a pressure zone.

Pitting - A form of wear characterized by the presence of surface cavities the formation of which is attributed to processes such as fatigue, local adhesion, or cavitation.

Requires Replacement - The particular part needs to be changed out in order to meet the construction and/or operational requirements as specified by the valve owner.

Scoring - A severe form of wear characterized by the formation of extensive grooves and scratches in the direction of sliding.

Seized - Two parts are jammed together to become stuck and cannot be removed by conventional means.

Spalling - (Specific to seats) the separation of material from a surface in the form of flakes or chips resulting from an impact event.