REPAIR SUMMARY REPORT



Whitecourt, AB

Job#: 2883097SR-15.0

Customer: Facility/Loc:

Outlet Size:

Pre-test Note:

Husky Oil Operations Ltd.

Relief Valve Product:

TBA

Service Reg'd: Repair Received: 12-Sep-2017

Cust PO: Cust Ref: Tag:

PSV 170

1" FNPT

Seal: Intact

Code Case: NB Code Symbol: UV

EQUIPMENT DATA

RMV

Mfr: Consolidated Model: 1993C CRN #: 0G0449.2 Serial No: 95C0050

Body Mat: Bonnet Mat: Trim Mat: **Soft Seat Mat:**

Seal ID:

Standard Carbon Steel

Service: Compressible Set Pressure: 175.00 PSIG 0.00 CDTP: 916 SCFM Capacity:

Inlet Size: 1" MNPT Orifice:

Plain Cap Type: Spring: UNKNOWN

Temp: 0 Constant BP: 0 0 Variable BP:

PRE-TEST

Pre-tested: YES Pre-test By: Josh Bougie Pre-test 1: Pre-test 2: Pre-test 3: 174 PSIG **176 PSIG** 172 PSIG

NO Fittings: Inlet: Clean Outlet: Clean Shipping Crate: NO

Leaked:

PWL. FUNCTIONS GOOD. NO LEAKS FOUND

CRITICAL DIMENSIONS

NOZZLE	Mfr Spec	As Found	DISC	Mfr Spec	As Found	<u>OTHER</u>	Mfr Spec	As Found
Length	0.906	0.910	Thickness	0.490	0.492 0.023	Spindle/Collar	0.007	0.001
Seat Step	0.265	0.275	Inside Step	0.010				
Seat ID	0.648	0.680	OutsideStep	0.000				
Seat OD	0.798	0.795	Seat	0.000				

PARTS EVALUATION

WORK PERFORMED
Cleaned/Lapped
Cleaned/Lapped
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse
Cleaned/Reuse

Disassembled By: Josh Bougie Inspected By: James Myshyniuk Assembled By: Josh Bougie

FINAL TEST

TW 17A

TW 4D

14-Sep-2017 **Date Tested: Test Method:** Bench Set Definition: Pop Test Media: Air Tested By: James Myshyniuk

Gauge 2: **Back Pressure:** BP Gauge:

Perform BP Test: Yes 30 PSIG **TW 18A**

Final Set Pressure: Leakage Rate: Upper BlowDown Ring: Lower BlowDown Ring: **Seat Tightness Test:**

Pilot Final Set Pressure:

N/A +5 156.00 PSIG

0

0

0

175.00 PSIG

4 BPM

Pilot Type: **Pilot Test Fluid:** Pilot Gauge 1: Pilot Gauge 2:

Gauge 1:

Pilot Leakage Rate: **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-38515 LSD: BIG STONE

REPAIR SUMMARY REPORT

SPARTAN Controls

Whitecourt, AB

Job#: 2883097SR-15.0



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.