WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

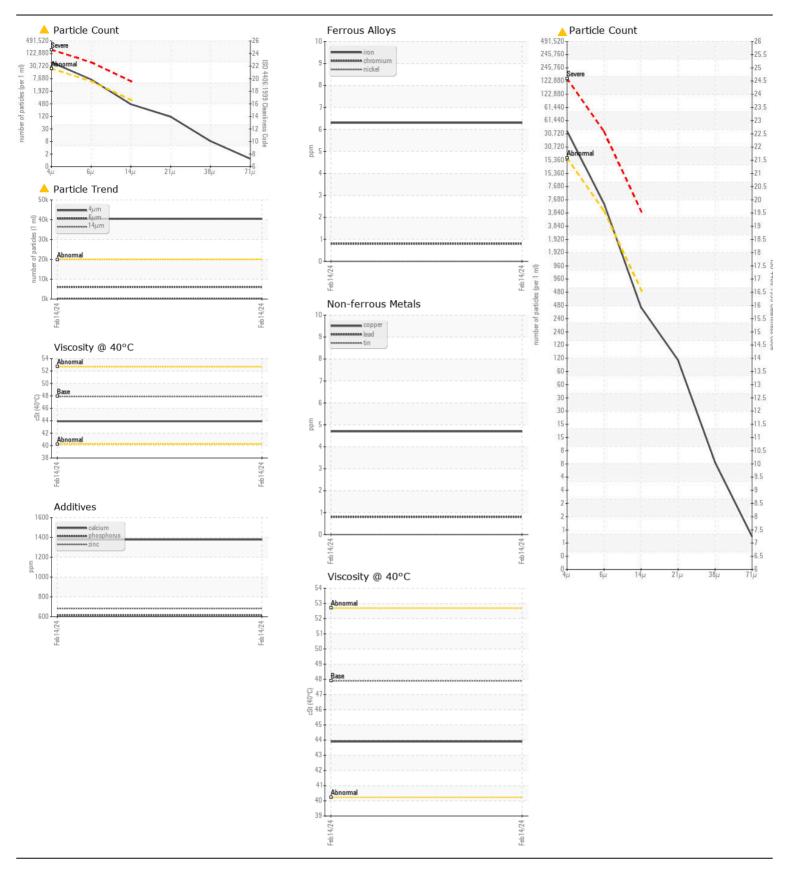
NORMAL



LIEBHERR R914 056971-1511

Component Hydraulic System

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LH0284025		
	Sample Date		Client Info		14 Feb 2024		
	Machine Age	hrs	Client Info		480		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>50	6		
WEAT	Chromium	ppm	ASTM D5185(m)		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>8	1		
	Lead	ppm	ASTM D5185(m)	>5	<1		
	Copper	ppm	ASTM D5185(m)	>15	5		
	Tin	ppm	ASTM D5185(m)	>5	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	6		
CONTAININATION	Potassium	ppm	ASTM D5185(m)		1		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	ppiii	WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		<u> 40446</u>		
	Particles >6µm		ASTM D7647	>5000	▲ 6083		
	Particles >14μm		ASTM D7647	>640	402		
	Particles >21μm		ASTM D7647	>160	101		
	Particles >38μm		ASTM D7647	>40	7		
	Particles >71μm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/16		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	VLITE		
	Sand/Dirt	scalar	Visual* Visual*	NONE	NONE NORML		
	Appearance Odor		Visual*	NORML	NORML		
	Emulsified Water		Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
Additive levels indicate the addition of a different brand, or type of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185(m)		<1		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	. ,	1	0		
	Magnesium	ppm	ASTM D5185(m)		4		
	Calcium Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	100	1378		
	Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	850	615 683		
	Sulfur	ppm	ASTM D5185(m)		3701		
	Visc @ 40°C	cSt	ASTM D3103(m) ASTM D7279(m)	47.9	43.9		
		551			10.0	•	





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: LH0284025 Lab Number : 02616276 Unique Number : 5733386

Test Package : MOB 1 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received

Diagnosed

Tested

: 16 Feb 2024

: 20 Feb 2024

: 20 Feb 2024 - Kevin Marson

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

WEKA HOLDINGS LTD 2754 WOODLAND DRIVE VANCOUVER, BC **CA V5N 3P8**

Contact: Cam Turtle

T: F: