



LIEBHERR R945 055788-1866

Swing Drive

PETRO CANADA SUPREME 5W30 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

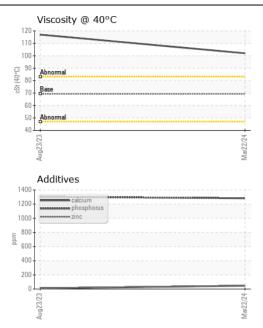
CONTAMINATION

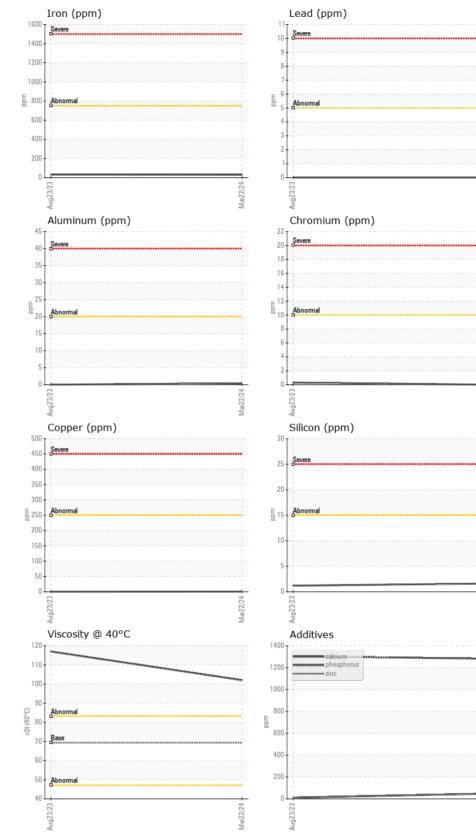
There is no indication of any contamination in the oil.

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0276881	LH0265652	
Sample Date		Client Info		22 Mar 2024	23 Aug 2023	
Machine Age	hrs	Client Info		1446	967	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>750	29	31	
Chromium	ppm	ASTM D5185(m)	>10	0	<1	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	
Lead	ppm	ASTM D5185(m)	>5	0	0	
Copper	ppm	ASTM D5185(m)	>250	<1	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>15	2	1	
Potassium	ppm	ASTM D5185(m)	>20	1	<1	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	VLITE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185(m)		1	1	
Boron	ppm	ASTM D5185(m)	186	227	225	
Barium	ppm	ASTM D5185(m)	<1	0	2	
Molybdenum	ppm	ASTM D5185(m)	79	0	<1	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	578	7	3	
Calcium	ppm	ASTM D5185(m)	1002	47	10	
Phosphorus	ppm	ASTM D5185(m)	745	1282	1304	
Zinc	ppm	ASTM D5185(m)	837	50	14	
Sulfur	ppm	ASTM D5185(m)	2502	20468	20247	







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : LH0276881 : 15 Apr 2024 Lab Number : 02628988 Tested : 16 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5762120 Diagnosed : 16 Apr 2024 - Kevin Marson Test Package : MOB 1 To discuss this sample report, contact Customer Service at 1-800-268-2131.

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.

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Mar22/24