



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR R926 48664

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (150 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0281063	LH0280964	LH0250539
Sample Date		Client Info		06 Jun 2024	16 Jan 2024	15 Sep 2023
Machine Age	kms	Client Info		0	3005	2684
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	39	35	42
Chromium	ppm	ASTM D5185(m)	>15	3	3	3
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>8	<1	1	1
Lead	ppm	ASTM D5185(m)	>5	2	2	3
Copper	ppm	ASTM D5185(m)	>15	12	11	15
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

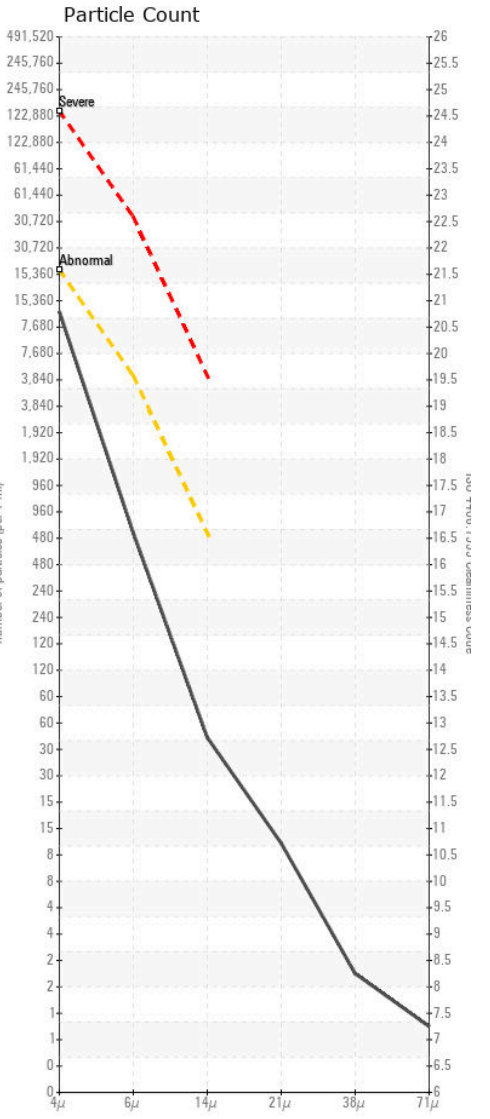
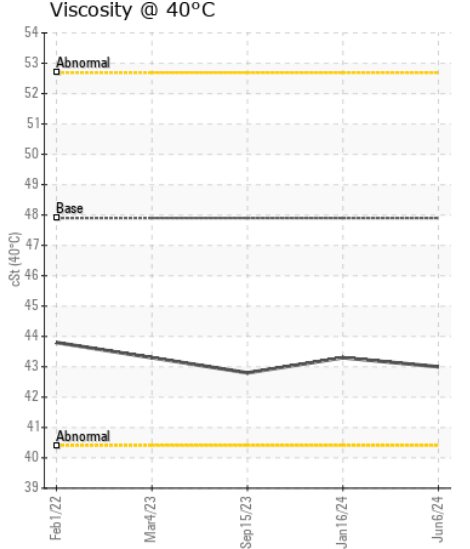
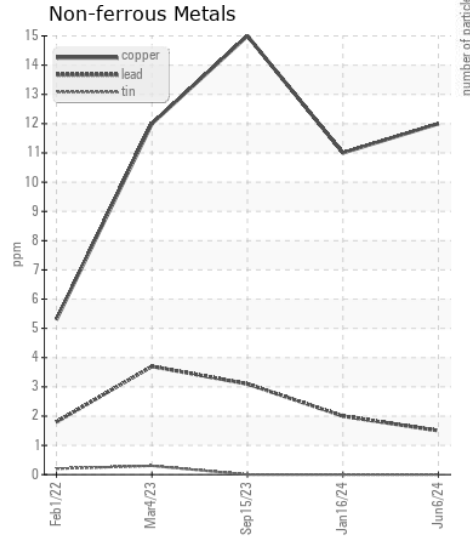
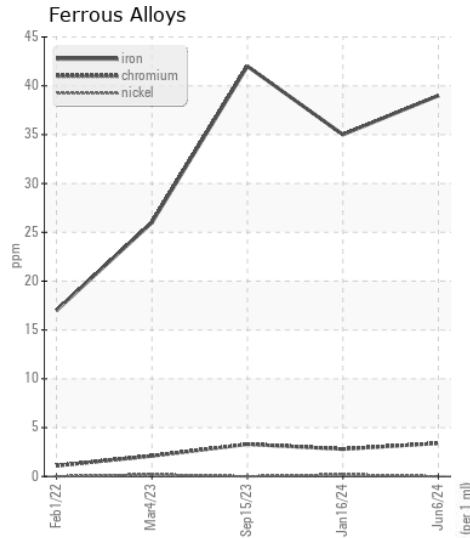
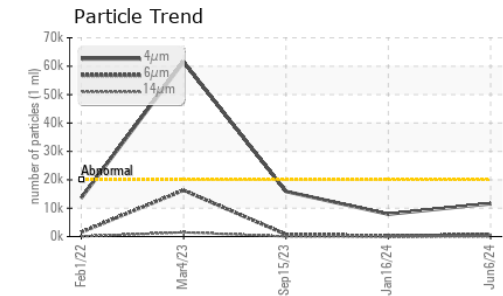
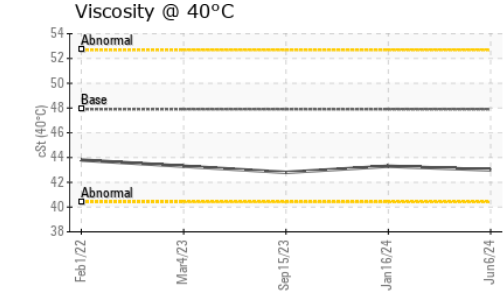
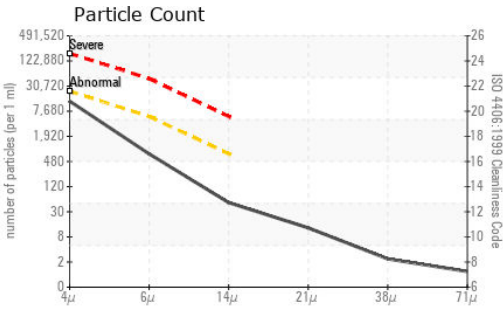
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>25	4	5	7
Potassium	ppm	ASTM D5185(m)	>20	<1	3	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	11590	7896	15886
Particles >6µm		ASTM D7647	>5000	640	172	765
Particles >14µm		ASTM D7647	>640	44	15	27
Particles >21µm		ASTM D7647	>160	11	5	6
Particles >38µm		ASTM D7647	>40	2	1	1
Particles >71µm		ASTM D7647	>10	1	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/16/13	20/15/11	21/17/12
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		12	14	23
Boron	ppm	ASTM D5185(m)	0	2	2	4
Barium	ppm	ASTM D5185(m)	0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<1	1	3
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	6	6	8
Calcium	ppm	ASTM D5185(m)	100	669	723	1002
Phosphorus	ppm	ASTM D5185(m)	670	489	517	609
Zinc	ppm	ASTM D5185(m)	850	600	605	694
Sulfur	ppm	ASTM D5185(m)	1600	3174	3576	4500
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	43.0	43.3	42.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281063 **Received** : 12 Jun 2024
Lab Number : 02641441 **Tested** : 13 Jun 2024
Unique Number : 5798980 **Diagnosed** : 13 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

MATCON
 2208 HARTLEY AVE
 COQUITLAM, BC
 CA V3K 6X3
 Contact: Service Manager

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.

T:
F: