



096750-1204 - Hydraulic System

Sample No: LH0285140

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

American Iron and Metal

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F:

Diagnosis

We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Light concentration of visible metal present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate.





SAMPLE INFORMATION

Sample Number	LH0285140	LH0274879	LH0270241	LH0270242
Sample Date	05 Feb 2024	31 Oct 2023	17 Oct 2023	16 Oct 2023
Machine Hours	10945	10469	10394	10590
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	MARGINAL	NORMAL	NORMAL	NORMAL



OIL CONDITION



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG	
Particles >4µm		5844	4761	2975	<u>138</u>	
Particles >6µm		541	469	641	37	
Particles >14µm		18	O 12	19	4	
ISO 4406:1999 (c)	20/16/11	19/16/11	19/17/11	14/12/9	
Silicon	ppm	0 <1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	O 1	- 4
Sodium	ppm	1	0 1	<1	2	133
Potassium	ppm	0 <1	0	0	0 <1	



WEAR METALS

Iron	ppm	● 8	0 7	0 3	0 8
Copper	ppm	2	2	01	2
Lead	ppm	0 <1	<1 <1 <	0 <1	
Tin	ppm	• 0	0	0	0
Aluminum	ppm	0 <1	0 <1	0	O <1
Chromium	ppm	0 <1	O <1	0	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
Molybdenum	ppm	2	2	0 <1	3
Nickel	ppm	0 <1	0	0 <1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	• 0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	366	213	154	228
Magnesium	ppm	4	3	<u>2</u>	3
Zinc	ppm	710	762	811	644
Phosphorus	ppm	596	612	628	O 511
Barium	ppm	• 0	0 <1	0 <1	0 <1
Boron	ppm	0 <1	<1 <1		O 1

Depot:AME120OTTUnique No:5734544Signed:Kevin MarsonReport Date:26 Feb 2024

Submitted By: Rick Cule

Report Id: AME120OTT [WCAMIS] 02617434 (Generated: 02/29/2024 10:17:20) Rev: 1

Particle Filter (Magn: 100 x)

CONSTRUCTION EQUIPMENT





GRAPHS



