

Sample Rating Trend

WEAR

X

Area KEMP QUARRIES / HULBERT [66668] Machine Id TTH036 Component

Right Final Drive

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: PM-2 sampled fluid)

🛑 Wear

The iron level is severe. Gear wear is indicated.

Contamination

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

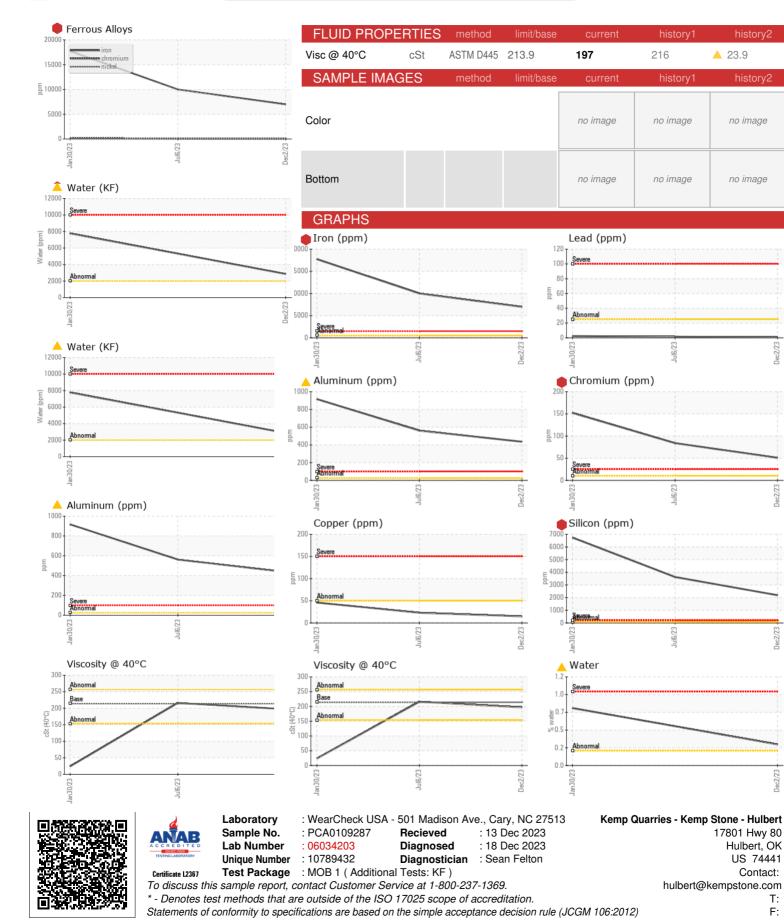
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

		Jan	1.010		23 Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0109287	PCA0086294	PCA0086722	
Sample Date		Client Info		02 Dec 2023	06 Jul 2023	30 Jan 2023	
Machine Age	hrs	Client Info		7525	6958	6499	
Oil Age	hrs	Client Info		7572	6958	0	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				SEVERE	SEVERE	SEVERE	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	6992	10000	17746	
Chromium	ppm	ASTM D5185m	>10	e 51	• 84	e 152	
Nickel	ppm	ASTM D5185m	>10	6	8	22	
Titanium	ppm	ASTM D5185m		39	61	112	
Silver	ppm	ASTM D5185m		0	1	0	
Aluminum	ppm	ASTM D5185m	>25	4 36	6 1	9 17	
Lead	ppm	ASTM D5185m	>25	<1	2	2	
Copper	ppm	ASTM D5185m	>50	15	23	46	
Tin	ppm	ASTM D5185m	>10	0	1	0	
Vanadium	ppm	ASTM D5185m		<1	2	4	
Cadmium	ppm	ASTM D5185m		0	2	1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	6	<1	15	
Barium	ppm	ASTM D5185m	0	0	3	3	
Molybdenum	ppm	ASTM D5185m	0	6	12	19	
Manganese	ppm	ASTM D5185m	0	56	A 79	136	
Magnesium	ppm	ASTM D5185m	9	64	92	127	
Calcium	ppm	ASTM D5185m	3114	2997	2247	961	
Phosphorus	ppm	ASTM D5185m	1099	1044	796	313	
Zinc	ppm	ASTM D5185m	1245	1096	736	45	
Sulfur	ppm	ASTM D5185m	7086	31601	32218	52796	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	e 2191	93628	6737	
Sodium	ppm	ASTM D5185m		8	18	32	
Potassium	ppm	ASTM D5185m	>20	113	154	282	
Water	%	ASTM D6304	>0.2	A 0.286		▲ 0.777	
ppm Water	ppm	ASTM D6304	>2000	A 0000		A 7770	
			2000	<u> </u>		_ ///0	
VISUAL	•••	method	limit/base	current	history1	history2	
VISUAL White Metal	scalar	method *Visual	limit/base NONE	current NONE	history1 NONE	history2 NONE	
VISUAL White Metal Yellow Metal	scalar scalar	method *Visual *Visual	limit/base NONE NONE	current NONE NONE	history1 NONE NONE	history2 NONE NONE	
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OIL ANALYSIS REPORT



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