

[807369] Machine Id HME P118 2960512 Component Right Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (4)

DIESEL ENGINE OIL SAE 15W40 (44 LTR)

RECOMMENDATION

We advise that you check for faulty combustion and a possible overheat condition. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

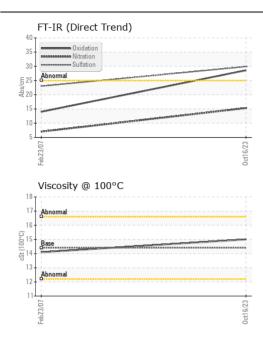
CONTAMINATION

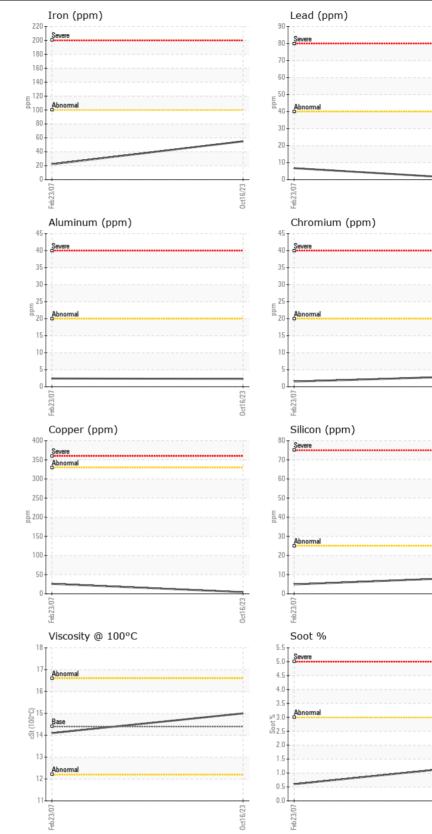
There is no indication of any contamination in the oil.

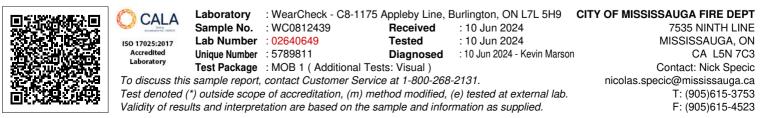
FLUID CONDITION

A small degree of oil oxidation was indicated. The oil is no longer serviceable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0812439	WC713703	
Sample Date		Client Info		16 Oct 2023	23 Feb 2007	
Machine Age	kms	Client Info		75000	0	
Oil Age	kms	Client Info		10000	0	
Filter Age	kms	Client Info		10000	0	
Oil Changed		Client Info		Changed	N/A	
Filter Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>100	55	22	
Chromium	ppm	ASTM D5185(m)	>20	3	2	
Nickel	ppm	ASTM D5185(m)	>4	0	0	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	2	2	
Lead	ppm	ASTM D5185(m)	>40	0	7	
Copper	ppm	ASTM D5185(m)	>330	4	26	
Tin	ppm	ASTM D5185(m)	>15	0	2	
Vanadium	ppm	ASTM D5185(m)		0	<1	
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
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Silicon	ppm	ASTM D5185(m)	>25	9	5	
Potassium	ppm	ASTM D5185(m)	>20	2	0	
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol	0/	WC Method	0	NEG	NEG	
Soot %	%	ASTM D7844*	>3	1.3	0.6	
Nitration	Abs/cm	ASTM D7624*	>20	15.3	7	
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.9	23	
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor Emulaified Water	scalar	Visual*	NORML	NORML	NEC	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185(m)	>158	6	<1	
Boron	ppm	ASTM D5185(m)	250	2	1	
Barium	ppm	ASTM D5185(m)	10	0	<1	
Molybdenum	ppm	ASTM D5185(m)	100	60	5	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)	450	964	11	
Calcium	ppm	ASTM D5185(m)	3000	1061	3508	
Phosphorus	ppm	ASTM D5185(m)	1150	934	1211	
Zinc	ppm	ASTM D5185(m)	1350	1148	1414	
Sulfur	ppm	ASTM D5185(m)	4250	2307	4081	
Oxidation	Abs/.1mm	ASTM D7414*	>25	28.6	14	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	15.0	14.1	
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Contact/Location: Nick Specic - CIT15MIS Page 2 of 2

Oct16/23