

LIEBHERR LH30M 1253-146764

Component Diesel Engine

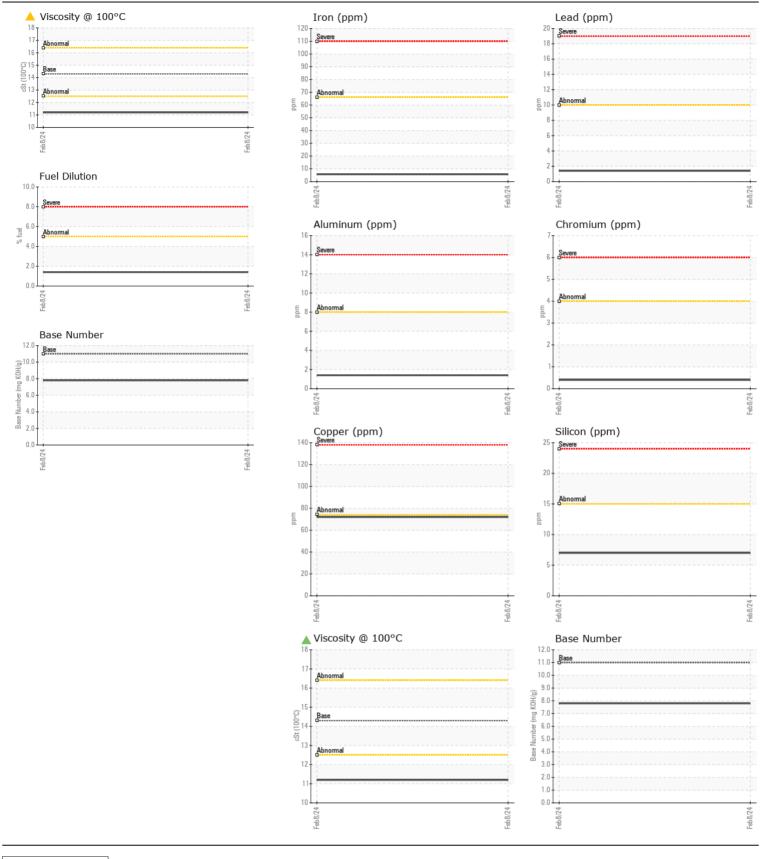
PETRO CANADA DURON UHP 5W40 (--- GAL)

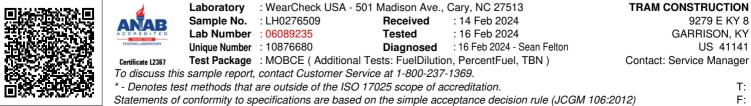
	JW40 ( G	<u>/</u>					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0276509		
	Sample Date		Client Info		08 Feb 2024		
	Machine Age	hrs	Client Info		1019		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>66	6		
	Chromium	ppm	ASTM D5185m	>4	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>8	1		
	Lead	ppm	ASTM D5185m	>10	1		
	Copper	ppm	ASTM D5185m	>74	72		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		7		
Fuel content negligible. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		<1		
	Fuel	%	ASTM D3524		1.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.0		
	Sulfation	Abs/.1mm	*ASTM D7415		22.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0		
FLOID CONDITION	Boron	ppm	ASTM D5185m	65	86		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		6		
		ppm					
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		47		
	Magnesium	ppm	ASTM D5185m		<1 868		
	Calcium	ppm	ASTM D5185m		1315		
		ppm	ASTM D5185m				
	Phosphorus Zinc	ppm	ASTM D5185m		634 864		
	Sulfur	ppm	ASTM D5185m				
	Oxidation	ppm			2116		
		Abs/.1mm	*ASTM D7414		25.1		
	Base Number (BN)	mg KOH/g	ASTIM D2896	11.0	7.8		

Visc @ 100°C cSt

ASTM D445 14.3

**11.2** 





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