

OIL ANALYSIS REPORT



Machine Id **TL-6** Component **Diesel Engine** Fluid **PETRO CANADA DURON HP 15W40 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0003994	KFS0003970	
Sample Date		Client Info		15 Apr 2024	14 Jul 2023	
Machine Age	hrs	Client Info		1537	1148	
Oil Age	hrs	Client Info		500	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	20.L	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
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Iron	ppm	ASTM D5185m	>100	29	25	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	5	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	39	8	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	4	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		64	62	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		890	878	
Calcium	ppm	ASTM D5185m		1083	1333	
Phosphorus	ppm	ASTM D5185m		997	979	
Zinc	ppm	ASTM D5185m		1178	1217	
Sulfur	ppm	ASTM D5185m		2949	3583	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	14	
Sodium	ppm	ASTM D5185m		0	4	
Potassium	ppm	ASTM D5185m	>20	4	10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	9.5	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.4	
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	14.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.69	10.13	
				0.00		



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/ps/cu

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12.0

(mg KOH/g)

6.0

4 (Base

> 19 18

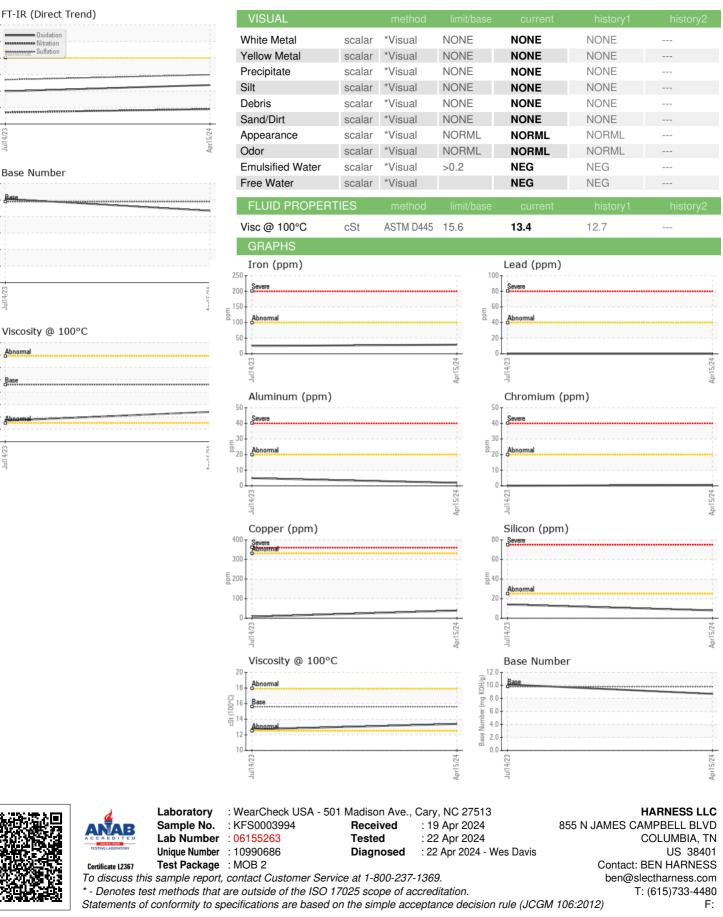
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Submitted By: BILL ENYART

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