

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 814048

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- QTS)

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.

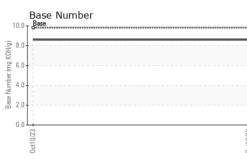
Fluid Condition

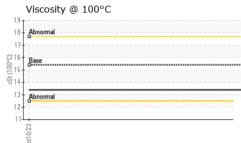
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

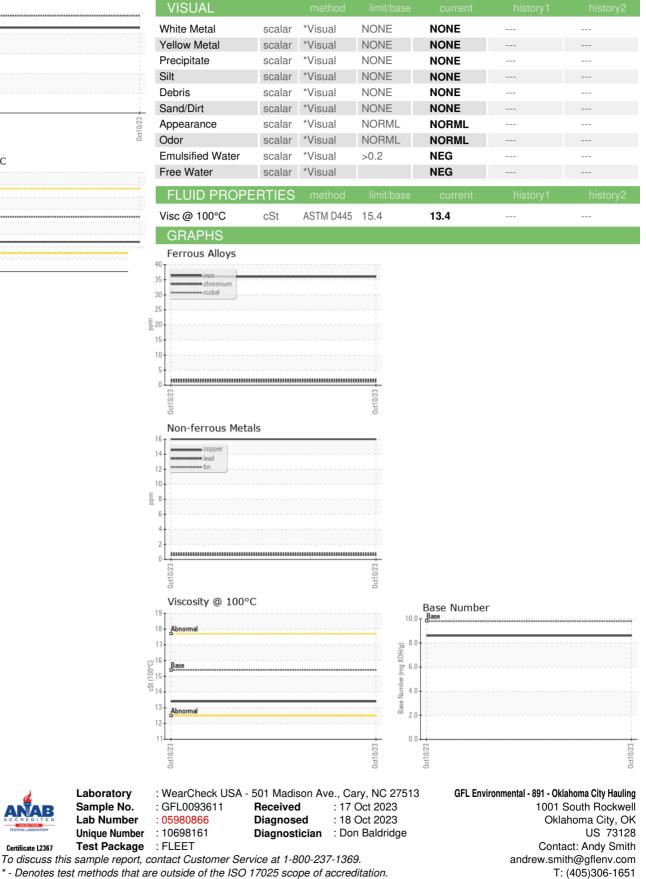
SAMPLE INFOR		methoa	iimit/base	current	nistory I	nistory2
Sample Number		Client Info		GFL0093611		
Sample Date		Client Info		10 Oct 2023		
Machine Age	hrs	Client Info		150		
Oil Age	hrs	Client Info		150		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
-		_				
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	36		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	31		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	16		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	281		
Barium	ppm	ASTM D5185m	0	6		
Molybdenum	ppm	ASTM D5185m	60	119		
Manganese	ppm	ASTM D5185m	0	6		
Magnesium	ppm	ASTM D5185m	1010	797		
Calcium	ppm	ASTM D5185m	1070	1563		
Phosphorus	ppm	ASTM D5185m	1150	791		
Zinc	ppm	ASTM D5185m	1270	978		
Sulfur	ppm	ASTM D5185m	2060	2855		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	25		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	80		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624		6.0		
Sulfation	Abs/.1mm	*ASTM D7624	>30	21.9		
FLUID DEGRA					history	history?
			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6		



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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