

OIL ANALYSIS REPORT

Sample Rating Trend



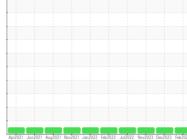


4676M Component

Machine Ic

Diesel Engine

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





SAMPLE INFORMATION method GFL0108889 GFL0105662 GFL0101523 Sample Number **Client Info** 24 Feb 2024 Sample Date Client Info 07 Dec 2023 16 Nov 2023 13740 Machine Age hrs **Client Info** 13740 13579 Oil Age hrs Client Info 13740 13579 11894 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS 8 >80 21 41 Iron ppm ASTM D5185m Chromium ASTM D5185m >5 2 ppm 1 <1 0 Nickel >2 ppm ASTM D5185m <1 0 Titanium ppm ASTM D5185m <1 0 <1 Silver ASTM D5185m >3 0 0 0 ppm 2 Aluminum >30 <1 4 ppm ASTM D5185m 0 Lead ASTM D5185m >30 0 0 ppm ASTM D5185m >150 2 Copper ppm <1 <1 0 0 Tin ppm ASTM D5185m >5 <1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium 0 0 ASTM D5185m <1 ppm ADDITIVES Boron ppm ASTM D5185m 0 2 0 <1 Barium ASTM D5185m 0 0 0 0 ppm 56 54 Molybdenum ASTM D5185m 60 52 ppm Manganese ASTM D5185m 0 0 ppm <1 <1 Magnesium ASTM D5185m 1010 888 907 810 ppm Calcium ppm ASTM D5185m 1070 1034 1016 929 Phosphorus ASTM D5185m 1150 1002 880 855 ppm Zinc ppm ASTM D5185m 1270 1206 1188 1133 Sulfur ASTM D5185m 2060 3043 3248 2239 ppm CONTAMINANTS Silicon 3 7 ASTM D5185m >20 6 ppm 2 Sodium ASTM D5185m 10 41 ppm

Foldsslum	ррш	ASTIM DSTOSIII	>20	3	0	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	1
Nitration	Abs/cm	*ASTM D7624	>20	11.4	7.4	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	18.6	25.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	15.1	26.2
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	6.1	8.5	5.1

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ASTM D5185m

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Potaccium

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.

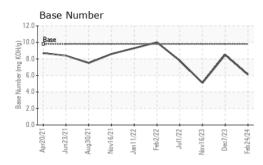
Fluid Condition

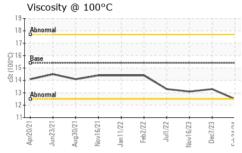
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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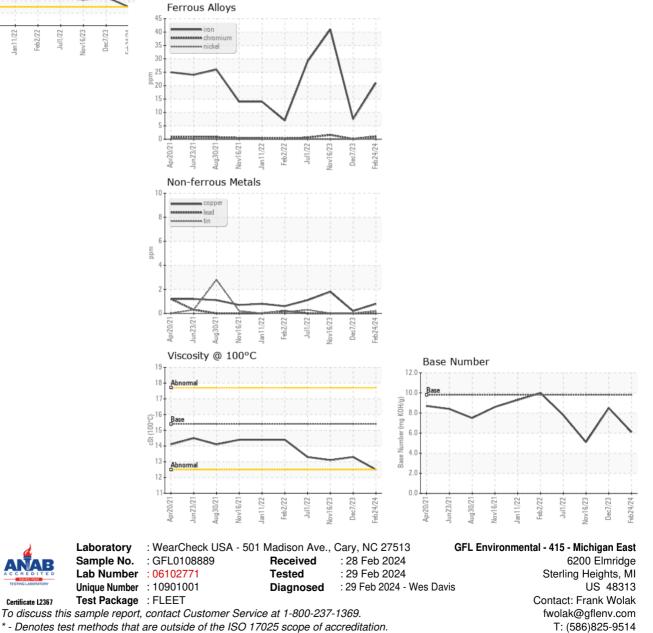


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	13.3	13.1
GRAPHS						



Certificate L2367

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