

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 428049-402356 Component

Diesel Engine

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

DN SHP 15W40 (GAL)								
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history		
Sample Number		Client Info		GFL0100488	GFL0093308	GFL007417		
Sample Date		Client Info		16 Nov 2023	27 Oct 2023	04 May 202		
Machine Age	hrs	Client Info		15513	15353	13955		
Oil Age	hrs	Client Info		15513	15353	13955		
Oil Changed		Client Info		Not Changd	Not Changd	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history		
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAI	_S	method	limit/base	current	history1	history		
Iron	ppm	ASTM D5185m	>120	8	5	9		
Chromium	ppm	ASTM D5185m	>20	1	<1	<1		
Nickel	ppm	ASTM D5185m	>5	1	<1	<1		
Titanium	ppm	ASTM D5185m	>2	1	0	0		
Silver	ppm	ASTM D5185m	>2	<1	<1	0		
Aluminum	ppm	ASTM D5185m	>20	2	1	<1		
Lead	ppm	ASTM D5185m	>40	1	0	<1		
Copper	ppm	ASTM D5185m	>330	1	<1	<1		
Tin	ppm	ASTM D5185m	>15	1	0	<1		
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		1	<1	0		
ADDITIVES		method	limit/base	current	history1	history		
Boron	ppm	ASTM D5185m	0	0	0	<1		
Barium	ppm	ASTM D5185m	0	0	4	2		
Molybdenum	ppm	ASTM D5185m	60	53	60	64		
Manganese	ppm	ASTM D5185m	0	1	0	<1		
Magnesium	ppm	ASTM D5185m	1010	922	897	1021		
Calcium	ppm	ASTM D5185m	1070	1090	1065	1166		
Phosphorus	ppm	ASTM D5185m	1150	1012	925	1048		
Zinc	ppm	ASTM D5185m	1270	1299	1175	1299		
Sulfur	ppm	ASTM D5185m	2060	2672	3112	3004		
CONTAMINA	NTS	method	limit/base	current	history1	history		
Silicon	ppm	ASTM D5185m	>25	6	6	6		
Sodium	ppm	ASTM D5185m		4	0	3		
Potassium	ppm	ASTM D5185m	>20	4	2	<1		
INFRA-RED		method	limit/base	current	history1	history		
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	6.3	5.3	6.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.2	19.3		
FLUID DEGRA	DATION	method	limit/base	current	history1	history		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.3	15.2		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	9.0	8.5		

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

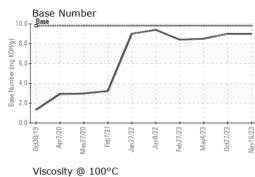
There is no indication of any contamination in the oil.

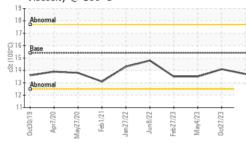
Fluid Condition

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

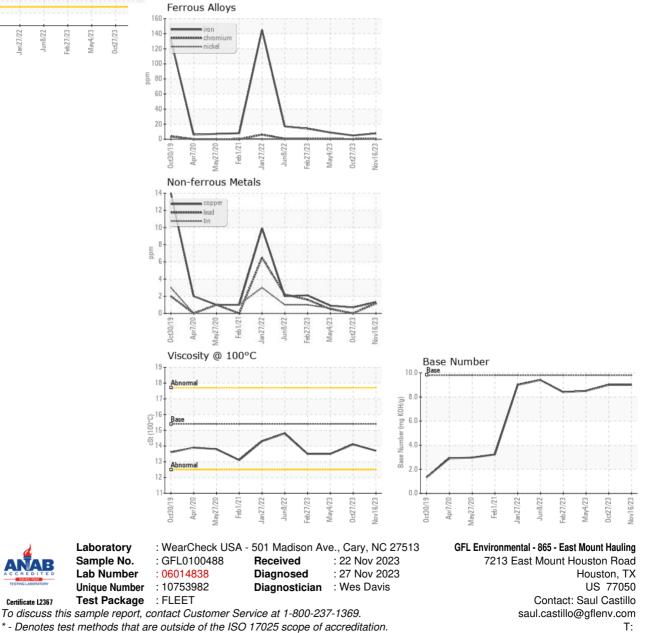


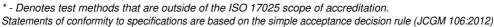
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.7	14.1	13.5
GRAPHS						





Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

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