

OIL ANALYSIS REPORT

Sample Rating Trend





Recommendation

Contamination

Fluid Condition

Wear

oil.

Area (DFX443) Machine Id 11197 Component Diesel Engine

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

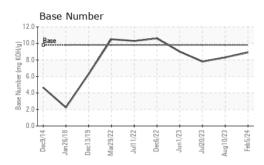
All component wear rates are normal.

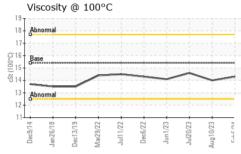
PETRO CANADA DURON SHP 15W40 (8 GAL

ON SHP 15W40 (8	,		018 Dec2019 Mar2022 Jul2	022 Dec2022 Jun2023 Jul2023 Aug	2023 Feb2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111536	GFL0083126	GFL0083113
Sample Date		Client Info		05 Feb 2024	10 Aug 2023	20 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	21	42	59
Chromium	ppm	ASTM D5185m	>5	<1	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	9	15	9
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>100	2	8	5
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	4	13
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	47	61	61
Manganese	ppm	ASTM D5185m	0	0	<1	1
Magnesium	ppm	ASTM D5185m	1010	714	971	866
Calcium	ppm	ASTM D5185m	1070	1005	1116	1441
Phosphorus	ppm	ASTM D5185m	1150	566	1052	972
Zinc	ppm	ASTM D5185m	1270	1091	1317	1179
Sulfur	ppm	ASTM D5185m	2060	2347	3734	3338
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	10	15
Sodium	ppm	ASTM D5185m		4	3	22
Potassium	ppm	ASTM D5185m	>20	9	18	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.9	1.9
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.5	10.0
Sulfation	Abs/.1mm	*ASTM D7415		18.5	19.6	22.9
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.7	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	8.3	7.8
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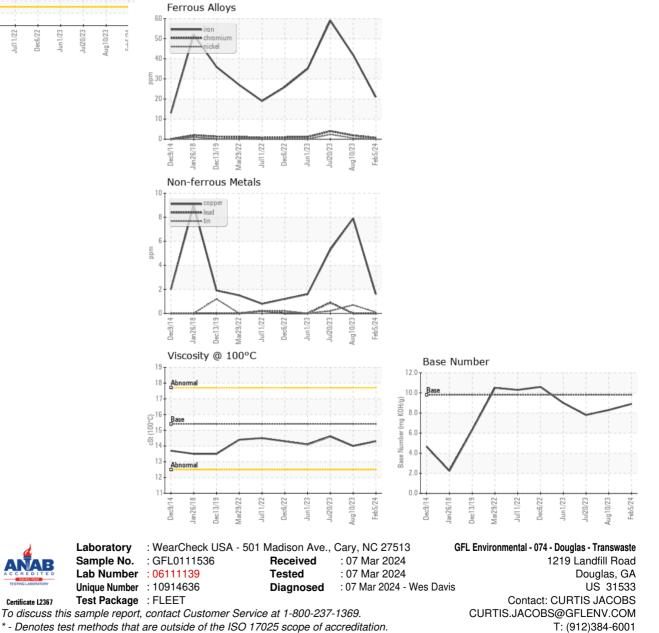


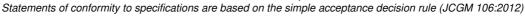
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.3	14.0	14.6
GRAPHS						





Certificate L2367

Submitted By: CURTIS JACOBS

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