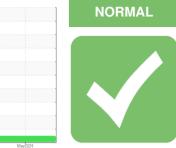


OIL ANALYSIS REPORT

SAMPLE INFORMATION method



Machine Id

192517 Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

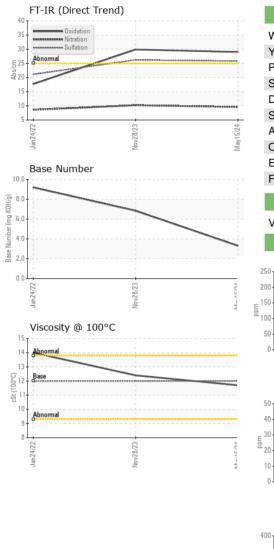
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

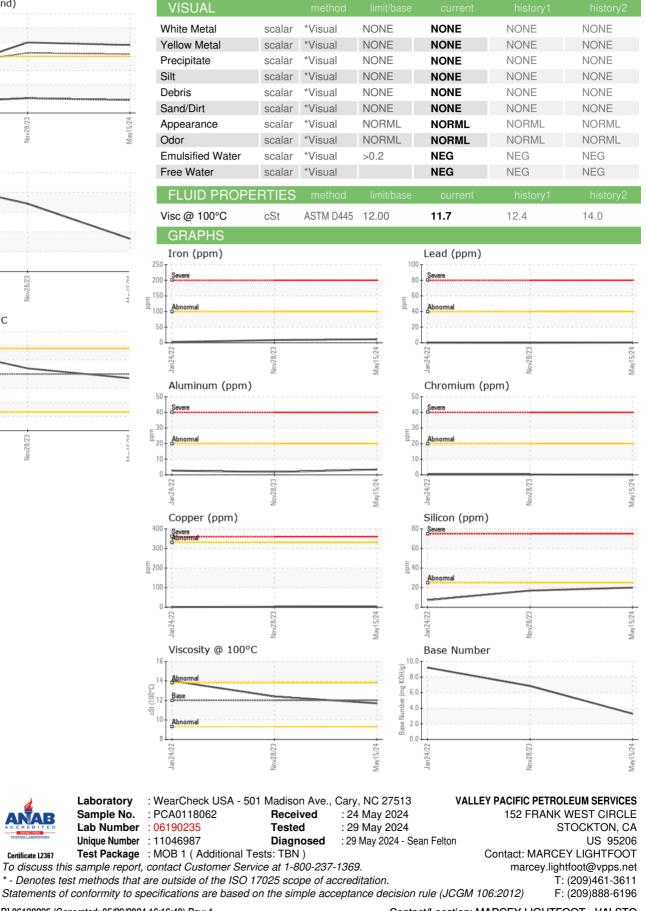
		methou	iiiiii/base	current	TIIStOLA	TIStoryz
Sample Number		Client Info		PCA0118062	PCA0057266	PCA0020944
Sample Date		Client Info		15 May 2024	28 Nov 2023	24 Jan 2022
Machine Age	mls	Client Info		383015	361180	22735
Oil Age	mls	Client Info		21779	17550	22735
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
		WC Method	>5	<1.0	<1.0	<1.0
Fuel Water				<1.0 NEG	<1.0 NEG	<1.0 NEG
		WC Method	>0.2			
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	9	2
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	15	2
Barium	ppm	ASTM D5185m	0	0	10	0
Molybdenum	ppm	ASTM D5185m	50	56	42	64
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	950	875	504	1073
Calcium	ppm	ASTM D5185m	1050	1183	1359	1146
Phosphorus	ppm	ASTM D5185m	995	833	708	1069
Zinc	ppm	ASTM D5185m	1180	1155	806	1344
Sulfur	ppm	ASTM D5185m	2600	3308	2508	2841
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20	17	7
Sodium	ppm	ASTM D5185m		4	7	1
Potassium	ppm	ASTM D5185m	>20	4	5	8
INFRA-RED		method	limit/base	current	history1	history2
		*ASTM D7844	>3	0.2	0.2	0.3
Soot %	%	ASTINITIAAA			U.L	0.0
Soot %	% Abs/cm				10.2	86
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.2	8.6 21.1
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	9.6 25.8	26.2	21.1
Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	9.6 25.8 current	26.2 history1	21.1 history2
Nitration Sulfation FLUID DEGRAE Oxidation	Abs/cm Abs/.1mm DATION Abs/.1mm	*ASTM D7624 *ASTM D7415 method *ASTM D7414	>20 >30	9.6 25.8 current 29.0	26.2 history1 29.9	21.1 history2 17.7
Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base >25	9.6 25.8 current	26.2 history1 29.9 6.84	21.1 history2 17.7 9.2

Contact/Location: MARCEY LIGHTFOOT - VALSTO



OIL ANALYSIS REPORT





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