

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id DT699 Component Diesel Engine Fluid 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

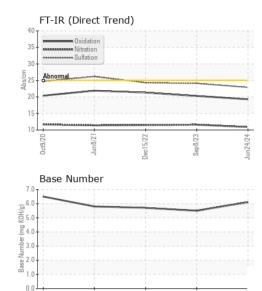
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

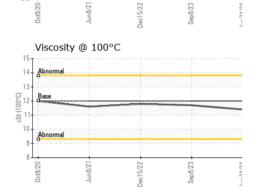
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0120537	PCA0074108	PCA0080978	
Sample Date		Client Info		24 Jun 2024	08 Sep 2023	15 Dec 2022	
Machine Age	mls	Client Info		185085	157513	125996	
Oil Age	mls	Client Info		27572	31517	36404	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
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 METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>110	22	33	31	
Chromium	ppm	ASTM D5185m	>4	1	1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>25	9	12	9	
Lead	ppm	ASTM D5185m	>45	<1	0	0	
Copper	ppm	ASTM D5185m	>85	2	2	3	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	5	3	3	
Barium	ppm	ASTM D5185m	0	2	0	2	
Molybdenum	ppm	ASTM D5185m	50	64	74	64	
Manganese	ppm	ASTM D5185m	0	1	<1	<1	
Magnesium	ppm	ASTM D5185m	950	927	1041	950	
Calcium	ppm		1050	1128	1164	1198	
Phosphorus	ppm	ASTM D5185m	995	993	1109	1072	
Zinc	ppm	ASTM D5185m	1180	1260	1379	1292	
Sulfur	ppm	ASTM D5185m	2600	2633	3104	2619	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	5	10	3	
Sodium	ppm	ASTM D5185m		1	2	0	
Potassium	ppm	ASTM D5185m	>20	13	18	22	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.8	
Nitration	Abs/cm	*ASTM D7624		10.9	11.6	11.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	24.1	24.3	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	20.3	21.3	
Base Number (BN)	mg KOH/g	ASTM D2896		6.1	5.5	5.7	
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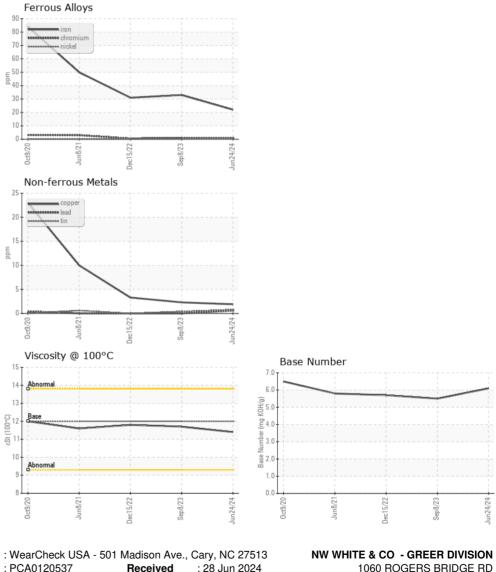


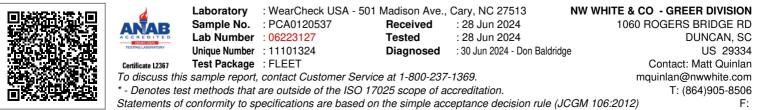
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.00	11.4	11.7	11.8
GRAPHS						





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