

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 5048

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (28 QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is no indication of any contamination in the oil.

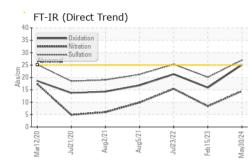
Fluid Condition

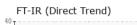
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

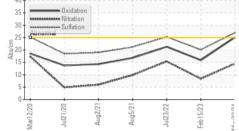
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0112713	PCA0045450	PCA0071382	
Sample Date		Client Info		30 May 2024	15 Feb 2023	23 Jul 2022	
Machine Age	mls	Client Info		103026	89372	84735	
Oil Age	mls	Client Info		13654	4637	7067	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				ABNORMAL	NORMAL	ABNORMAL	
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	>100	113	41	96	
Chromium	ppm	ASTM D5185m	>20	2	2	2	
Nickel	ppm	ASTM D5185m	>4	2	1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>20	18	6	A 39	
Lead	ppm	ASTM D5185m	>40	7	2	2	
Copper	ppm	ASTM D5185m	>330	8	3	5	
Tin	ppm	ASTM D5185m	>15	2	1	<1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	0	0	3	
Barium	ppm	ASTM D5185m	0	<1	0	2	
Molybdenum	ppm	ASTM D5185m	50	66	65	64	
Manganese	ppm	ASTM D5185m	0	1	2	1	
Magnesium	ppm	ASTM D5185m	950	867	939	827	
Calcium	ppm	ASTM D5185m	1050	1087	1147	1036	
Phosphorus	ppm	ASTM D5185m	995	917	993	943	
Zinc	ppm	ASTM D5185m	1180	1135	1254	1145	
Sulfur	ppm	ASTM D5185m	2600	3234	3540	3030	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	8	11	
Sodium	ppm	ASTM D5185m		5	3	5	
Potassium	ppm	ASTM D5185m	>20	7	2	20	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	2.1	0.6	2.2	
Nitration	Abs/cm	*ASTM D7624	>20	14.5	8.4	15.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.0	20.1	25.3	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.1	15.9	21.3	
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	11.1	11.4	
5:37:35) Bev: 2					Submitted By: Chad Ingold		

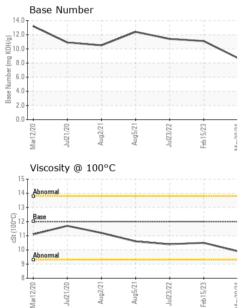


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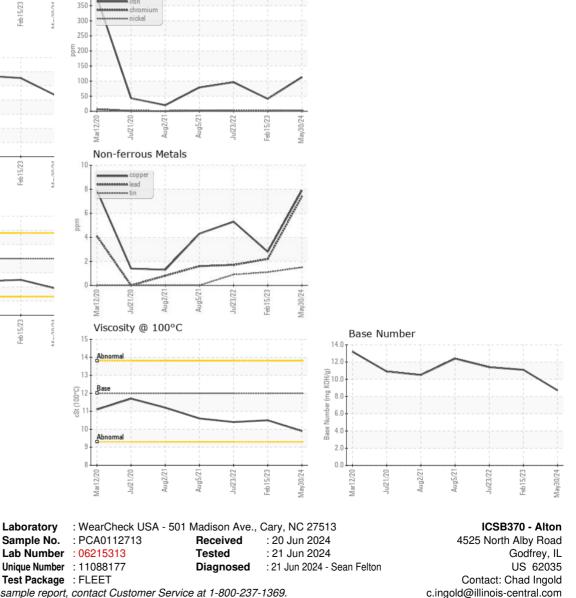








VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/Dase	current	Thistory I	TIIStOI y2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	9.9	10.5	10.4
GRAPHS						
Ferrous Alloys						
o iron						





* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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