

OIL ANALYSIS REPORT

Sample Rating Trend allaalaasaasaasaa



NORMAL

KEMP QUARRIES / RIVER VALLEY OZARK WL112

Component **Diesel Engine** Fluid

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

SAMPLE INFOF	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086925	PCA0084501	PCA0069680
Sample Date		Client Info		19 Mar 2024	09 Feb 2024	09 Oct 2023
Machine Age	hrs	Client Info		35919	35658	34927
Oil Age	hrs	Client Info		32626	32626	32626
Oil Changed	1110	Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
				<1.0 NEG	<1.0 NEG	<1.0 NEG
Water		WC Method	>0.2			
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	24	19	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	1	1
Lead	ppm	ASTM D5185m	>40	2	2	<1
Copper	ppm	ASTM D5185m	>330	4	3	3
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	<1
Barium	ppm	ASTM D5185m	0	1	0	12
Molybdenum	ppm	ASTM D5185m	60	62	57	55
Vanganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	903	884	897
Calcium	ppm	ASTM D5185m	1070	1180	997	961
Phosphorus	ppm	ASTM D5185m	1150	1082	913	954
Zinc	ppm	ASTM D5185m	1270	1214	1138	1156
Sulfur	ppm	ASTM D5185m	2060	3350	3359	2873
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	3
Sodium	ppm	ASTM D5185m		<1	<1	1
Potassium	ppm	ASTM D5185m	>20	3	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.5	1
Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.1	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.2	18.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	13.5	12.4

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

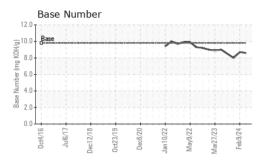
There is no indication of any contamination in the oil.

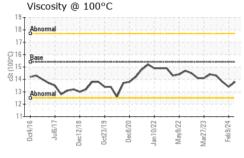
Fluid Condition

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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Certificate L2367

Laboratory

Sample No.

Lab Number