

OIL ANALYSIS REPORT

KEMP QUARRIES / RIVER VALLEY ARKOMA Machine Id WL152

Component Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

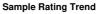
Contamination

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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GAL)			Jun2023	Jan2024		
SAMPLE INFOR		method	limit/base	current	history1	history2
			mmbase			
Sample Number		Client Info Client Info		PCA0084476 30 Jan 2024	PCA0085784 07 Jun 2023	
Sample Date Machine Age	hrs	Client Info		30 Jan 2024 31180	07 Jun 2023 0	
Oil Age	hrs	Client Info		31129	0	
Oil Changed	1113	Client Info		Changed	Not Changd	
Sample Status				NORMAL	ABNORMAL	
			11 11 11			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	40	64	
Chromium	ppm	ASTM D5185m	>20	1	2	
Nickel	ppm		>4	2	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	3	▲ 7	
Lead	ppm	ASTM D5185m	>40	4	4	
Copper	ppm	ASTM D5185m	>330	5	94	
Tin	ppm	ASTM D5185m	>15	2	1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	33	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	55	37	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	850	86	
Calcium	ppm	ASTM D5185m		943	2474	
Phosphorus	ppm	ASTM D5185m	1150	965	949	
Zinc	ppm	ASTM D5185m	1270	1157	1171	
Sulfur	ppm	ASTM D5185m	2060	2924	4045	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	22	A 33	
Sodium	ppm	ASTM D5185m		9	<u> </u>	
Potassium	ppm	ASTM D5185m	>20	4	<u> </u>	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	1.7	
Nitration	Abs/cm	*ASTM D7624	>20	4.7	14.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	30.5	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	25.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	7.4	
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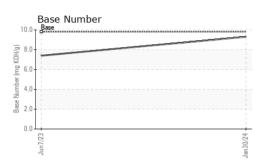


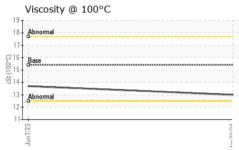


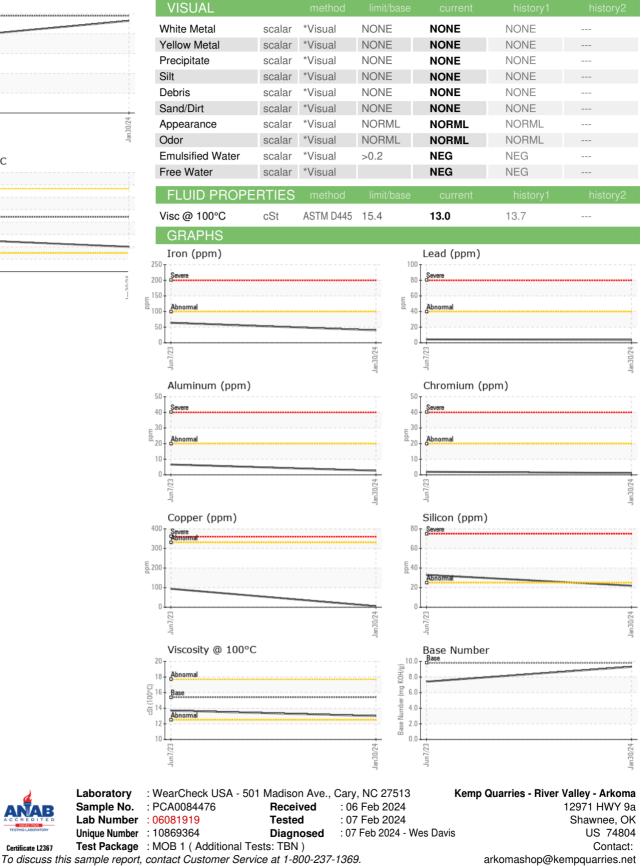
NORMAL



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* - 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)

Certificate L2367

Laboratory

Sample No.

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