

OIL ANALYSIS REPORT

KEMP QUARRIES / PRYOR STONE [66224] WL116 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm4 performed. All oil samples taken. All oils,and all filters changed.)

Wear

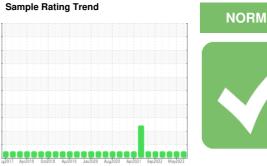
All component wear rates are normal.

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.

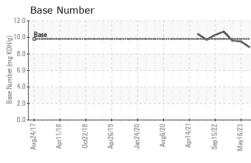


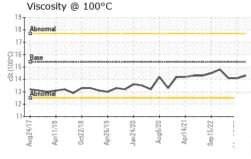
SAMPLE INFORI		method	limit/base	current	history1	history2
	VIATION		IIIIII/Dase			
Sample Number		Client Info		PCA0084248	PCA0083963	PCA0070562
Sample Date		Client Info		12 Aug 2023	16 May 2023	01 Mar 2023
Machine Age	hrs	Client Info		6032	5836	5657
Oil Age	hrs	Client Info		196	179	0
Oil Changed		Client 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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	29	14	16
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	8	7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	0	3	8	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	56	62
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1074	906	1023
Calcium	ppm	ASTM D5185m	1070	1246	1252	1139
Phosphorus	ppm	ASTM D5185m	1150	1132	979	1080
Zinc	ppm	ASTM D5185m	1270	1404	1210	1323
Sulfur	ppm	ASTM D5185m	2060	4084	3660	4067
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20	13	12
Sodium	ppm	ASTM D5185m		24	3	2
Potassium	ppm	ASTM D5185m	>20	2	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.7	5.6	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	18.5	17.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	14.5	13.5
Base Number (BN)	mg KOH/g			8.8	9.5	9.6
(=)	0			-		

NORMAL



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

Certificate L2367

Laboratory

Sample No.

Lab Number