

OIL ANALYSIS REPORT

Sample Rating Trend



Area K5 CONSTRUCTION CORPORATION - HODGKINS IL 1861 Component Diesel Engine

LEAHY WOLF PREMIUM 15W40 (9 LTR)

	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		PCA0122002	LW0007433	LW0007020
ng has	Sample Date		Client Info		19 Apr 2024	18 Jul 2023	02 May 2023
mended	Machine Age	hrs	Client Info		1892	1660	1360
interval to	Oil Age	hrs	Client Info		232	1426	234
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				ATTENTION	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
in the oil. n in the	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
e BN result emaining in	Iron	ppm	ASTM D5185m	>100	8	34	26
	Chromium	maa	ASTM D5185m	>20	0	<1	0
	Nickel	maa	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	6	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	7	264	182
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m	210	0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	maa	ASTM D5185m		48	2	<1
	Barium	maa	ASTM D5185m		0	<1	0
	Molvbdenum	maa	ASTM D5185m		44	61	54
	Manganese	mag	ASTM D5185m		0	<1	<1
	Magnesium	maa	ASTM D5185m		672	1011	941
	Calcium	nad	ASTM D5185m		1639	1210	1085
	Phosphorus	ppm	ASTM D5185m		1002	1058	972
	Zinc	ppm	ASTM D5185m		1254	1357	1249
	Sulfur	ppm	ASTM D5185m		3938	3222	2997
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	9	5	5
	Sodium	ppm	ASTM D5185m		2	2	0
	Potassium	ppm	ASTM D5185m	>20	<1	0	<1
	Fuel	%	ASTM D3524	>5	0.3	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.0	9.7	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.5	17.5
	FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.5	14.9
	Base Number (BN)	ma KOH/a	ASTM D2896	9.8	10.3	7.8	7.6
		9					

Recommendation

DIAGNOSIS

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



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VISUAL













NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.9



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