

Machine Id HOBBS CRUSHER 2 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		KL0013576	KL0013544	KL0013283
	Sample Date		Client Info		06 Jun 2024	01 May 2024	26 Jan 202
	Machine Age	hrs	Client Info		8685	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	19	25
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	3
	Lead	ppm	ASTM D5185m	>40	0	0	2
	Copper	ppm	ASTM D5185m	>330	2	4	4
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	0
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.7	8.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.3	22.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	2	1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	424	484	311
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	84	90	88
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	440	405	444
	Calcium	ppm	ASTM D5185m	3000	1427	1384	1309
	Phosphorus	ppm	ASTM D5185m		1068	1029	922
	Zino	0.00	ACTM DE10Em	1050	1000	1100	1110

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D5185m 1350

ASTM D445 10.9

ppm ASTM D5185m 4250

Abs/.1mm *ASTM D7414 >25

1188

3427

17.1

7.5

12.0

1110

18.4

7.3

12.3

2904

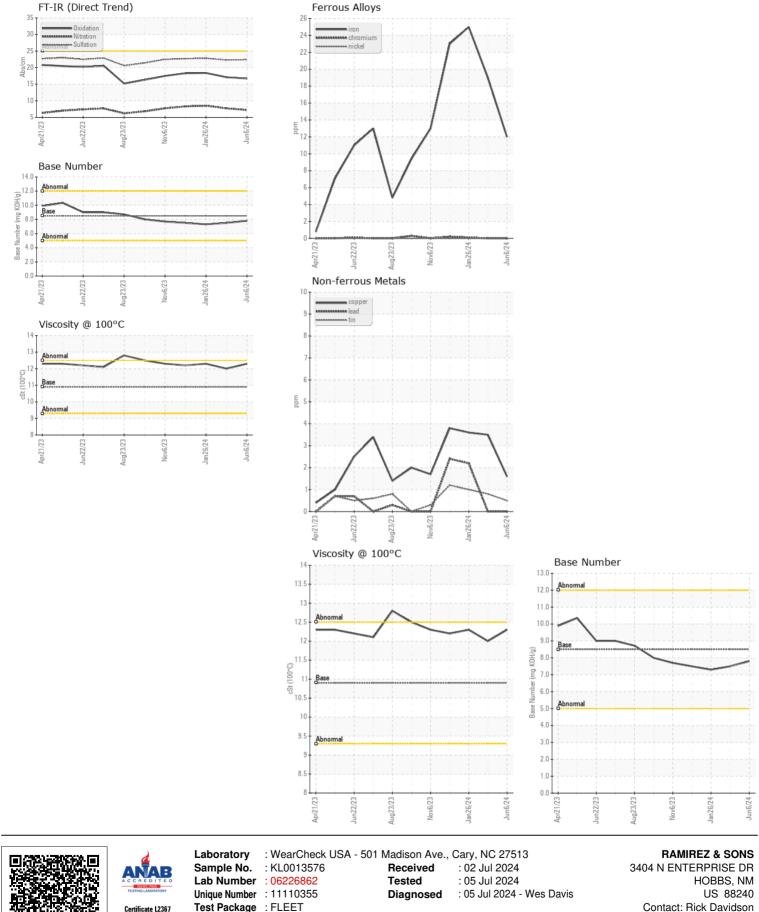
1263

3931

16.7

7.8

12.3



To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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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