WEAR CONTAMINATION FLUID CONDITION

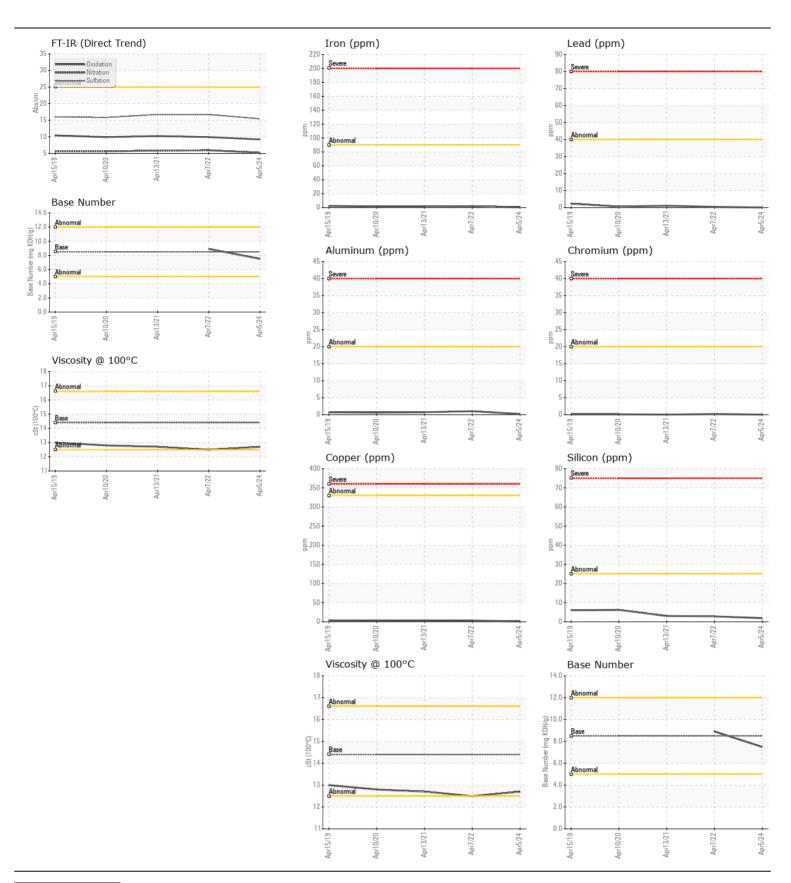
NORMAL NORMAL

[PMOAS3340836]

CUMMINS 1500DFMB D940540212

Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0035243	DC0020425	DC001096
	Sample Date		Client Info		05 Apr 2024	07 Apr 2022	13 Apr 202
	Machine Age	yrs	Client Info		1	846	816
	Oil Age	yrs	Client Info		1	0	0
	Filter Age	yrs	Client Info		1	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
/EAD	Iron	nnm	ASTM D5185m	> 00	<1	2	2
WEAR	Chromium	ppm	ASTM D5185m		0		0
All component wear rates are normal.	Nickel	ppm				<1 1	
	Titanium	ppm	ASTM D5185m		0		0
	Silver	ppm	ASTM D5185m		0	<1	<1
		ppm	ASTM D5185m		-	<1	0
	Aluminum	ppm	ASTM D5185m		<1 0	1	<1
	Lead	ppm	ASTM D5185m ASTM D5185m			<1	1
	Copper Tin	ppm	ASTM D5185m		0	3 <1	0
	Vanadium	ppm	ASTM D5185m	>10	0	<1	0
	White Metal	ppm		NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
·	Tellow Metal	scalar	VISUAI	INOINE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	3	3
T	Potassium	ppm	ASTM D5185m	>20	<1	2	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.9	5.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	16.7	16.7
	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
LUID CONDITION	Cadima		ACTM DE10E	150		^	
LUID CONDITION	Sodium	ppm	ASTM D5185m		1 0	3	2
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 ASTM D5185m			10	3
	Barium	ppm			0 2	0	0
	Molybdenum	ppm	ASTM D5185m	100			0
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	450	0 43	<1 58	47
	Calcium	ppm	ASTM D5185m		2199	2320	2453
	Phosphorus	ppm	ASTM D5185m		898	973	964
	Zinc	ppm	ASTM D5185m		1073	1170	1077
	Sulfur	ppm	ASTM D5185m			3458	3264
	Oxidation	ppm Abs/.1mm	*ASTM D7414		4435 9.2	9.9	10.2
			ASTM D7414 ASTM D2896		9.2 7.5	8.9	10.2







Certificate L2367

Report Id: KELOWI [WUSCAR] 06157472 (Generated: 04/24/2024 10:43:11) Rev: 1

Laboratory Sample No.

Lab Number : 06157472

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0035243

Received **Tested** Unique Number : 10992895 Diagnosed

Test Package : MOB 1 (Additional Tests: TBN)

: 24 Apr 2024 : 24 Apr 2024 - Wes Davis

: 23 Apr 2024

KELLY GENERATOR & EQUIPMENT INC 1955 DALE LN OWINGS, MD US 20736 Contact: LESLIE SNURR

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. LSNURR@KGE.COM T: (410)257-5225 F: (410)257-5227