MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
DODGE DON LESTER RAM 1500 - PCS
Component
Gasoline Engine
Fluid
SAE 15W30 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates for unit history.

WEAR

All component wear rates are normal.

CONTAMINATION

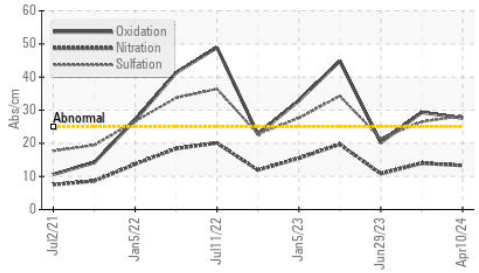
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

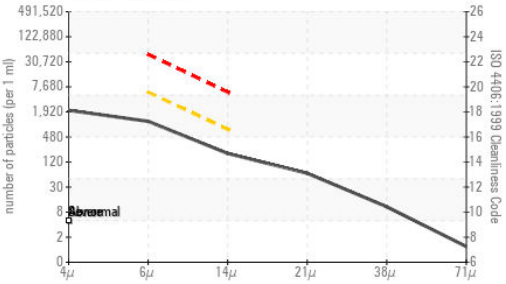
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013791	KL0013022	KL0009690
Sample Date		Client Info		10 Apr 2024	03 Oct 2023	29 Jun 2023
Machine Age	mls	Client Info		103550	84482	76136
Oil Age	mls	Client Info		9534	9346	1000
Filter Age	mls	Client Info		9534	9346	1000
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>150	94	▲ 226	139
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	1	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>40	5	0	2
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>155	20	34	25
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>30	8	6	4
Potassium	ppm	ASTM D5185m	>20	3	2	2
Fuel		WC Method	>4.0	<1.0	<1.0	▲ 2.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	13.3	14.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.3	26.5	21.4
Particles >4µm		ASTM D7647		1836	3262	418
Particles >6µm		ASTM D7647	>5000	1000	1777	227
Particles >14µm		ASTM D7647	>640	170	302	39
Particles >21µm		ASTM D7647	>160	57	102	13
Particles >38µm		ASTM D7647	>40	9	16	2
Particles >71µm		ASTM D7647	>10	1	2	0
Oil Cleanliness		ISO 4406 (c)	>19/16	17/15	18/15	15/12
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>70	8	2	1
Boron	ppm	ASTM D5185m		11	2	2
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		101	44	49
Manganese	ppm	ASTM D5185m		5	8	5
Magnesium	ppm	ASTM D5185m		365	304	332
Calcium	ppm	ASTM D5185m		1588	1093	1002
Phosphorus	ppm	ASTM D5185m		607	485	510
Zinc	ppm	ASTM D5185m		546	487	556
Sulfur	ppm	ASTM D5185m		5697	3572	2418
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.6	29.3	20.2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.03	2.52	2.45
Visc @ 100°C	cSt	ASTM D445	11.0	9.6	9.9	● 9

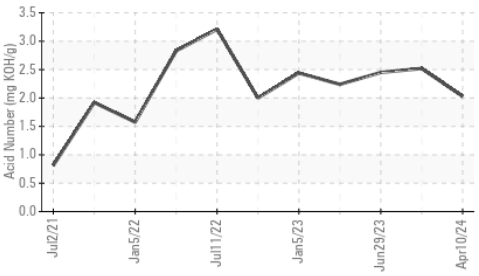
FT-IR (Direct Trend)



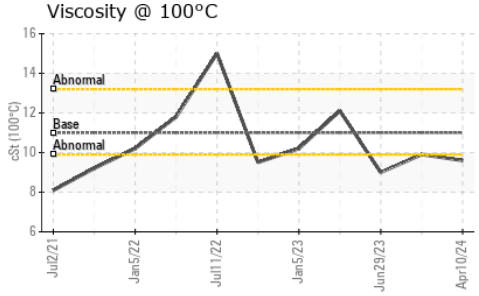
Particle Count



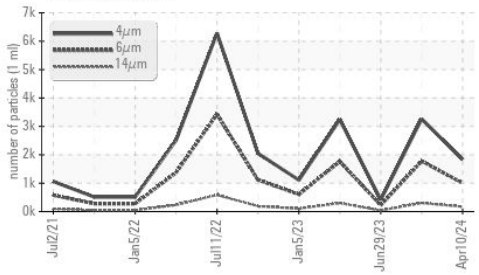
Acid Number



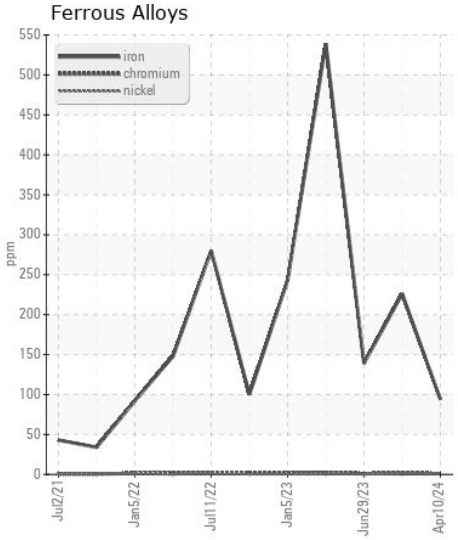
Viscosity @ 100°C



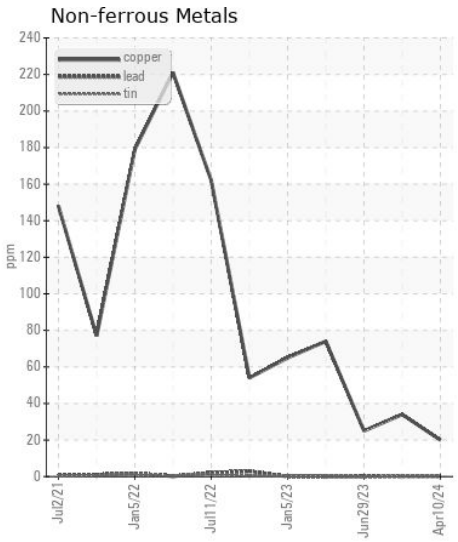
Particle Trend



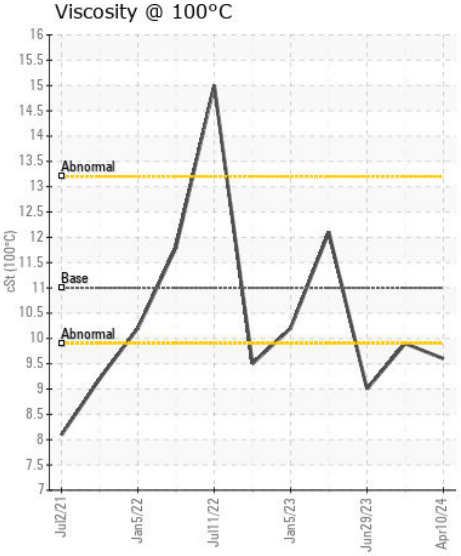
Ferrous Alloys



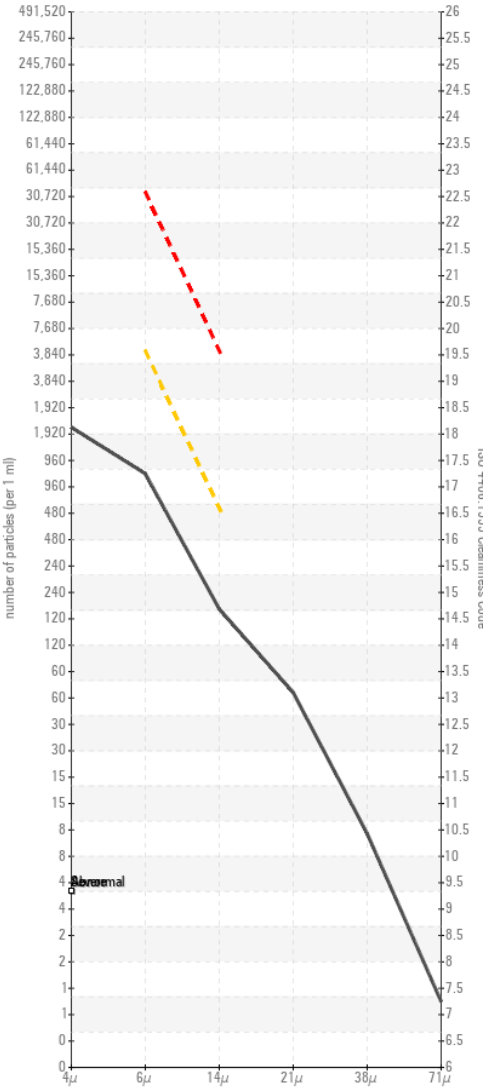
Non-ferrous Metals



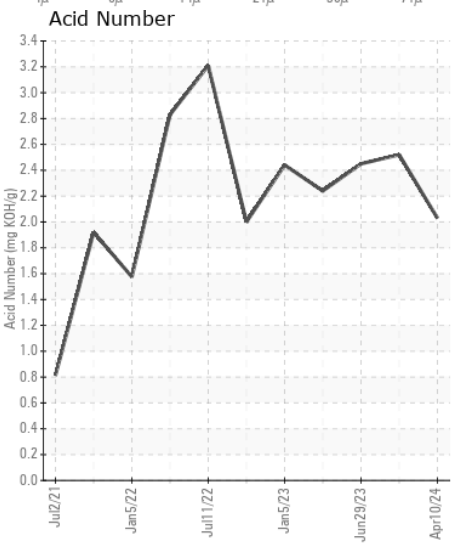
Viscosity @ 100°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KL0013791	**Received**	: 16 Apr 2024
Lab Number	: 06150571	**Tested**	: 17 Apr 2024
Unique Number	: 10980649	**Diagnosed**	: 19 Apr 2024 - Doug Bogart
Test Package	: MOB 2 (Additional Tests: PrtCount)		

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)

PIKES PEAK PERFORMANCE PRODUCTS
7888 BULLET RD
PEYTON, CO
US 80831
Contact: SCOTT RIGGS
sriggs.pikespeakperformance@gmail.com
T: (303)434-0126
F: x: