



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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014735	KL0013791	KL0013022
Sample Date		Client Info		10 Jul 2024	10 Apr 2024	03 Oct 2023
Machine Age	mls	Client Info		116054	103550	84482
Oil Age	mls	Client Info		2000	9534	9346
Filter Age	mls	Client Info		2000	9534	9346
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	84	94	▲ 226
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	0	1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>40	3	5	0
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>155	9	20	34
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

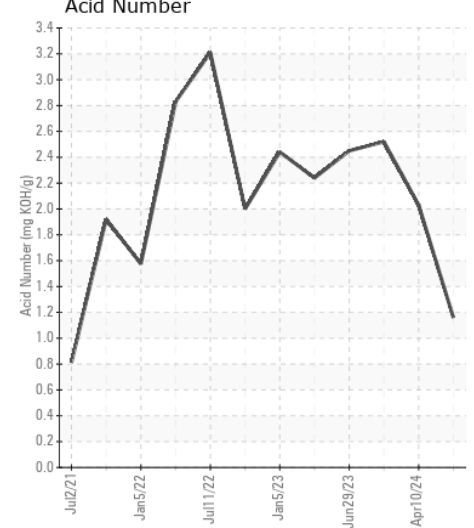
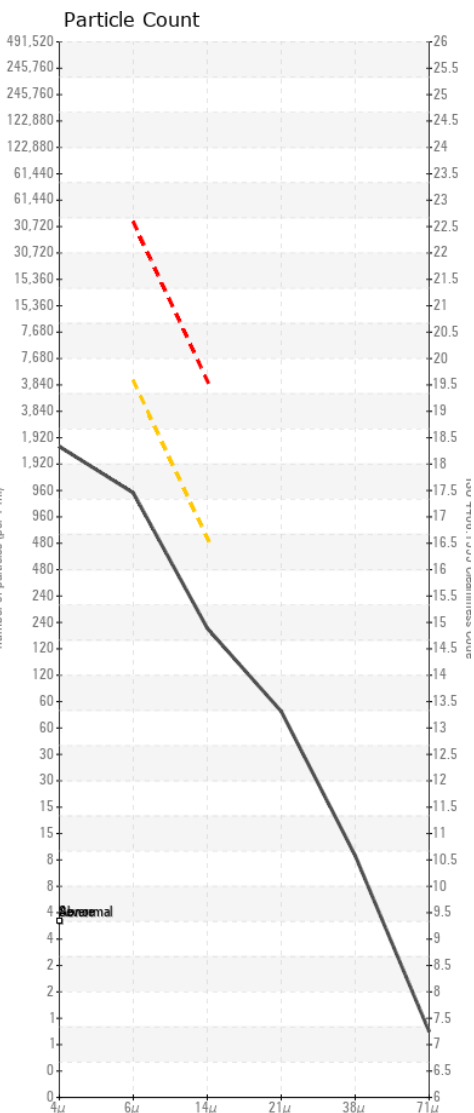
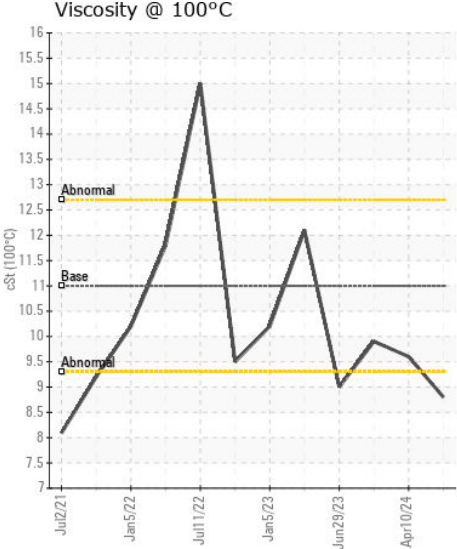
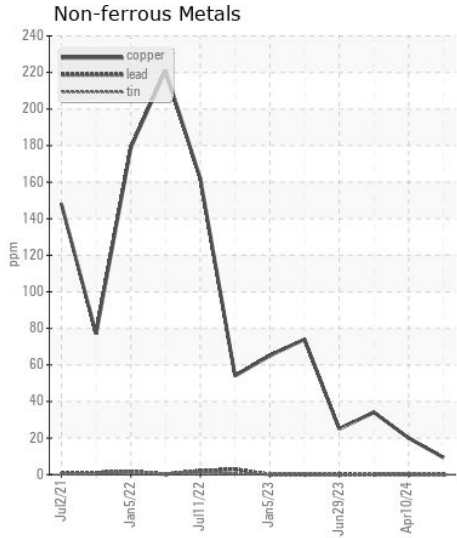
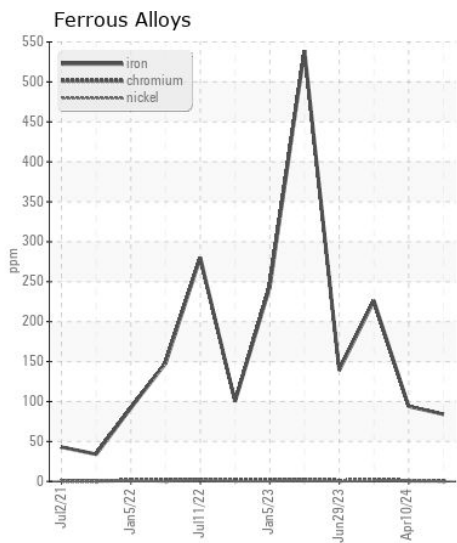
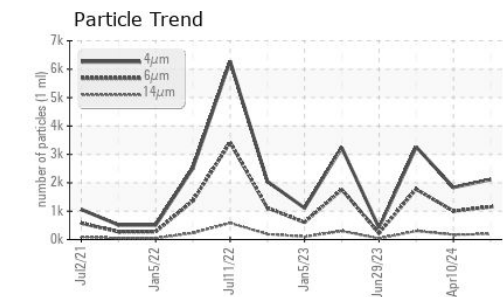
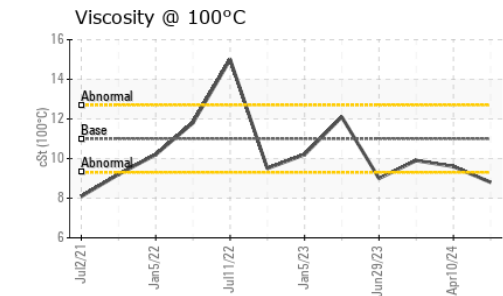
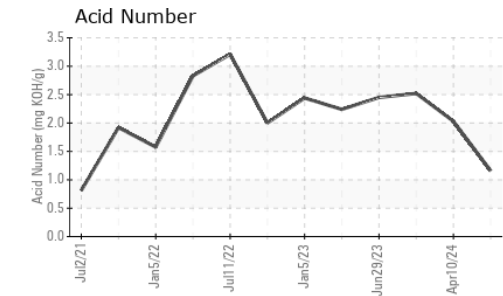
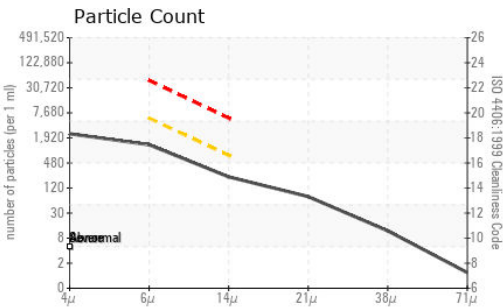
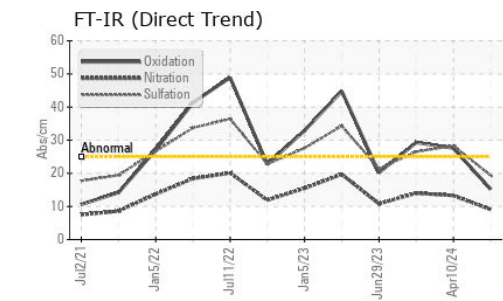
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>30	8	8	6
Potassium	ppm	ASTM D5185m	>20	2	3	2
Fuel	%	ASTM D3524	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.1	13.3	14.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	28.3	26.5
Particles >4µm		ASTM D7647		2114	1836	3262
Particles >6µm		ASTM D7647	>5000	1152	1000	1777
Particles >14µm		ASTM D7647	>640	196	170	302
Particles >21µm		ASTM D7647	>160	66	57	102
Particles >38µm		ASTM D7647	>40	10	9	16
Particles >71µm		ASTM D7647	>10	1	1	2
Oil Cleanliness		ISO 4406 (c)	>19/16	17/15	17/15	18/15
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>70	6	8	2
Boron	ppm	ASTM D5185m		39	11	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		134	101	44
Manganese	ppm	ASTM D5185m		2	5	8
Magnesium	ppm	ASTM D5185m		451	365	304
Calcium	ppm	ASTM D5185m		1372	1588	1093
Phosphorus	ppm	ASTM D5185m		656	607	485
Zinc	ppm	ASTM D5185m		722	546	487
Sulfur	ppm	ASTM D5185m		2785	5697	3572
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	27.6	29.3
Acid Number (AN)	mg KOH/g	ASTM D8045		1.16	2.03	2.52
Visc @ 100°C	cSt	ASTM D445	11.0	8.8	9.6	9.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014735 **Received** : 16 Jul 2024
Lab Number : 06237973 **Tested** : 17 Jul 2024
Unique Number : 11126807 **Diagnosed** : 17 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PrtCount, TBN)
 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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