



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KOMATSU LR18-344
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0068896	PC0031671	PC0068744
Sample Date		Client Info		15 Feb 2024	18 Sep 2023	23 Jun 2023
Machine Age	hrs	Client Info		9032	8524	8004
Oil Age	hrs	Client Info		508	507	562
Filter Age	hrs	Client Info		508	507	562
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	26	23	50
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	5
Lead	ppm	ASTM D5185(m)	>40	1	2	2
Copper	ppm	ASTM D5185(m)	>330	3	4	7
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

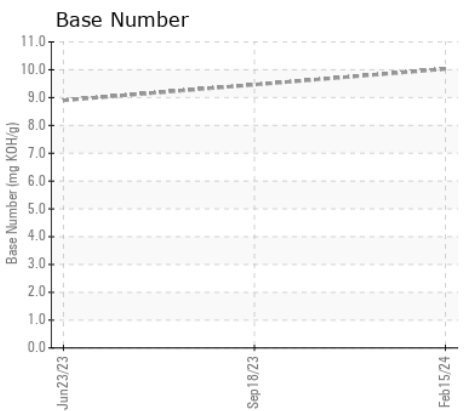
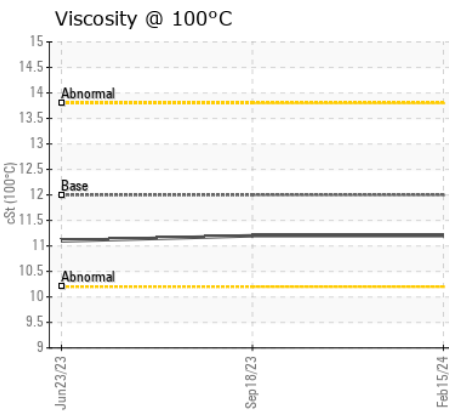
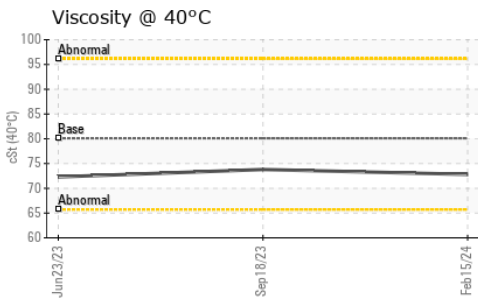
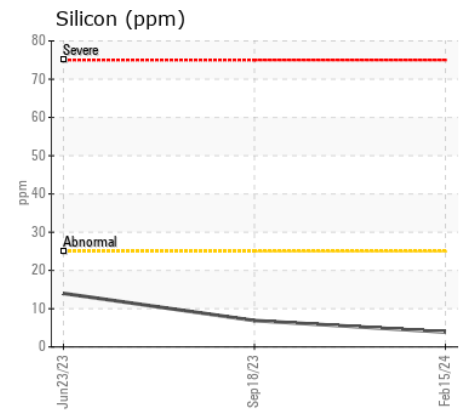
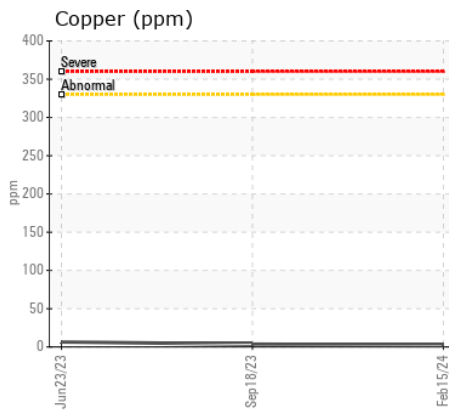
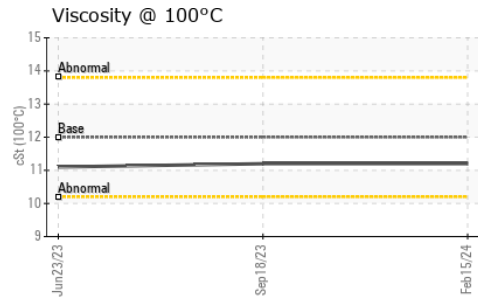
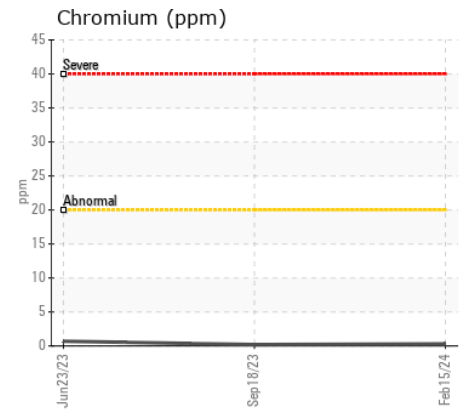
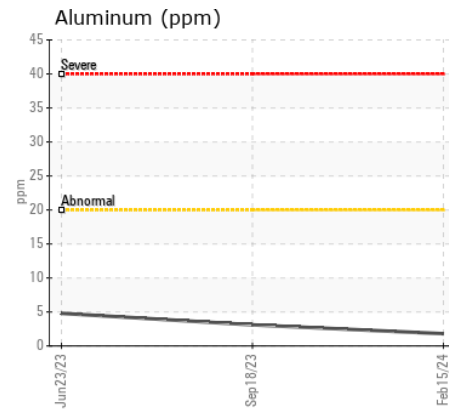
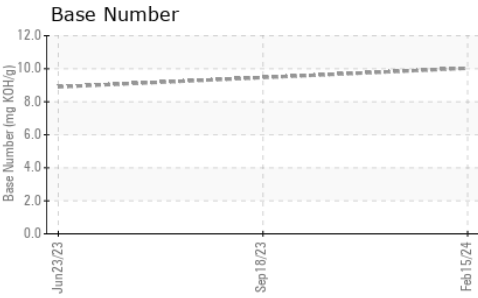
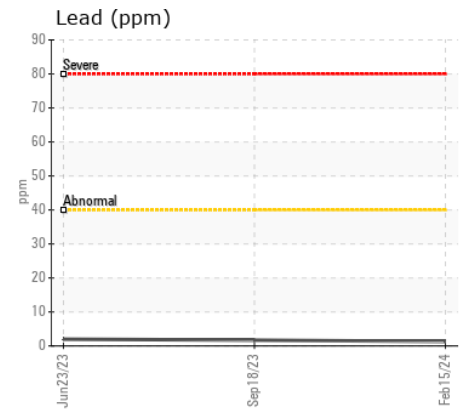
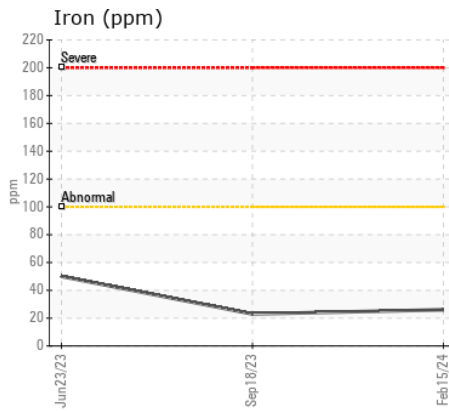
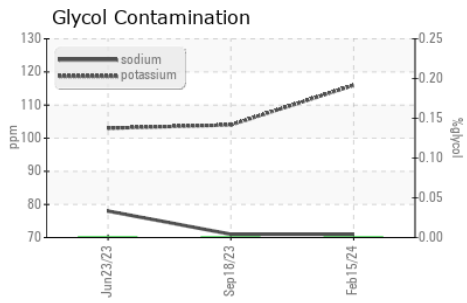
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	14
Potassium	ppm	ASTM D5185(m)	>20	116	104	103
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.4	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.3	8.9	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.2	20.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		71	71	78
Boron	ppm	ASTM D5185(m)	2	1	4	3
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	68	69	67
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	978	985	1003
Calcium	ppm	ASTM D5185(m)	1050	1075	1063	1098
Phosphorus	ppm	ASTM D5185(m)	995	1063	1053	1121
Zinc	ppm	ASTM D5185(m)	1180	1206	1212	1246
Sulfur	ppm	ASTM D5185(m)	2600	2842	2678	2752
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.9	15.2	15.9
Base Number (BN)	mg KOH/g	ASTM D2896*		10.03	---	8.90
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	72.8	73.8	72.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.2	11.2	11.1
Viscosity Index (VI)	Scale	ASTM D2270*	144	145	142	144



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0068896 **Received** : 08 Mar 2024
Lab Number : 02620788 **Tested** : 11 Mar 2024
Unique Number : 5737898 **Diagnosed** : 11 Mar 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: Glycol, KV40, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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