

Machine Id **KOMATSU 76** Component **Diesel Engine** Fluid **FLEET GUARD 15W40 (23 GAL)**

FLEET GUARD 15W40 (25 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LP0001238	LP0000647	LP0000469
	Sample Date		Client Info		02 Feb 2024	18 Oct 2023	25 Aug 2023
	Machine Age	hrs	Client Info		17863	17299	17054
	Oil Age	hrs	Client Info		273	230	250
	Filter Age	hrs	Client Info		273	230	250
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	3	5	6
	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	1	2
	Lead	ppm	ASTM D5185m	>40	0	2	0
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	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	Silicon	ppm	ASTM D5185m	>25	2	4	5
	Potassium	ppm	ASTM D5185m		0	2	0
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	0.7	0.7
	Nitration	Abs/cm	*ASTM D7624		6.6	6.4	6.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	19.0	17.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	3
	Boron	ppm	ASTM D5185m		15	2	18
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		19	59	65
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		168	977	817
	Calcium	ppm	ASTM D5185m		1950	1157	1336
	Phosphorus	ppm	ASTM D5185m		822	1136	1083
	Zinc	ppm	ASTM D5185m		1045	1339	1312
	Sulfur	ppm	ASTM D5185m		3297	3403	3546
	Oxidation	Abs/.1mm	*ASTM D310311	>25	9.0	13.9	12.5
	Base Number (BN)			~	9.84	11.31	9.53
		- Ot			10.04	11.01	10.00

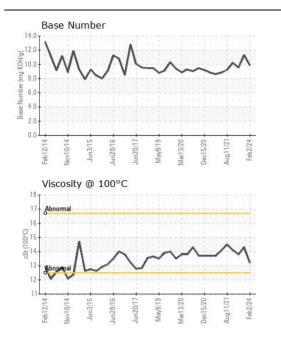
Visc @ 100°C cSt

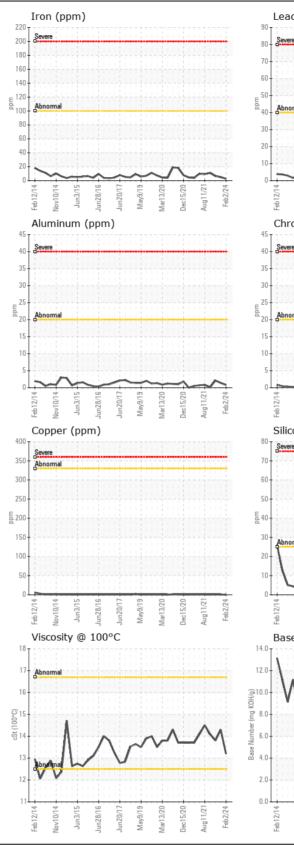
ASTM D445

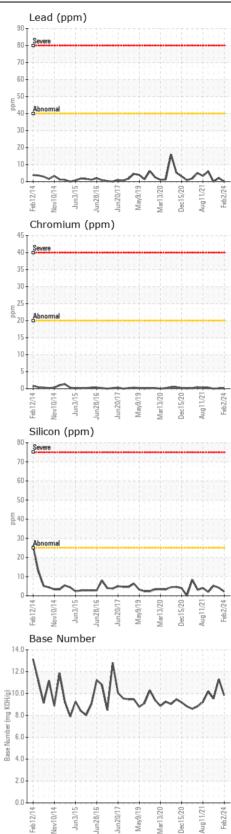
14.3

13.2

13.8











 Certificate 12367
 Test Package
 : MOB 2

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 scoreditation.

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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

Received

Diagnosed

Tested

: 26 Feb 2024

: 28 Feb 2024

: 28 Feb 2024 - Wes Davis

Laboratory

Sample No.

Lab Number : 06101150

Unique Number : 10899380

: LP0001238