- FRONT GASOLINE ENGINE

Sample No: WC0933997

Oil Type: SAE 0W20

SAMPLE INFORMATION

Sample Number		**WC0933997**	---	---	---
Sample Date		**15 Apr 2024**	---	---	---
Machine Hours		**37000**	---	---	---
Oil Hours		**13000**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ **6.4**	---	---	---
Base Number (BN)	mg KOH/g	■ **6.68**	---	---	---
Oxidation (PA)	%	**32**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	■ **0**	---	---	---
Nitration (PA)	%	**40**	---	---	---
Sulfation (PA)	%	**39**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	▲ **4.7**	---	---	---
Silicon	ppm	■ **32**	---	---	---
Sodium	ppm	■ **1**	---	---	---
Potassium	ppm	■ **2**	---	---	---

WEAR METALS

Iron	ppm	■ **5**	---	---	---
Copper	ppm	■ **4**	---	---	---
Lead	ppm	■ **0**	---	---	---
Tin	ppm	■ **0**	---	---	---
Aluminum	ppm	■ **6**	---	---	---
Chromium	ppm	■ **0**	---	---	---
Molybdenum	ppm	■ **78**	---	---	---
Nickel	ppm	■ **0**	---	---	---
Titanium	ppm	■ **0**	---	---	---
Silver	ppm	■ **0**	---	---	---
Manganese	ppm	■ **<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	■ **978**	---	---	---
Magnesium	ppm	■ **421**	---	---	---
Zinc	ppm	■ **640**	---	---	---
Phosphorus	ppm	■ **556**	---	---	---
Barium	ppm	■ **<1**	---	---	---
Boron	ppm	■ **36**	---	---	---

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Diagnosis

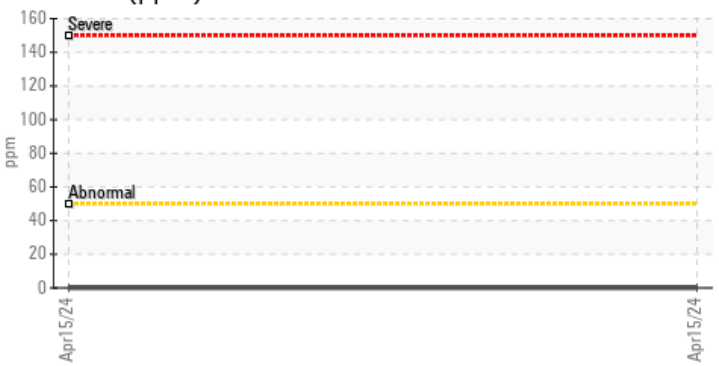
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

Depot: DIMMON
Unique No: 5763684
Signed: Kevin Marson
Report Date: 23 Apr 2024

GRAPHS

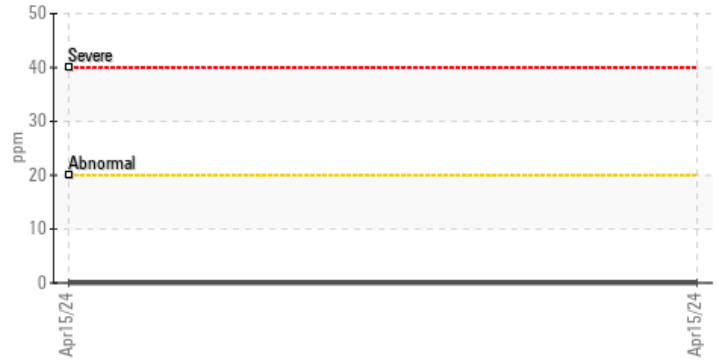
Iron (ppm)

Lead (ppm)



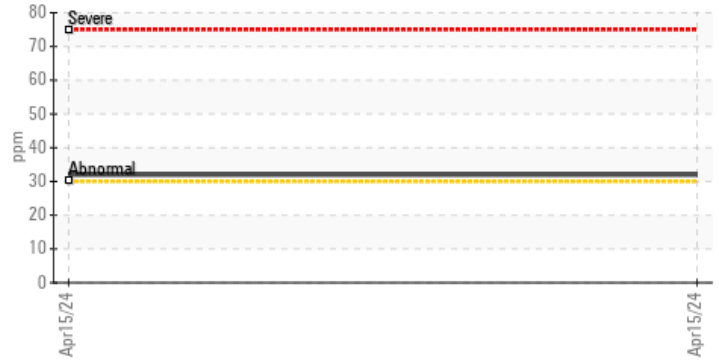
Aluminum (ppm)

Chromium (ppm)

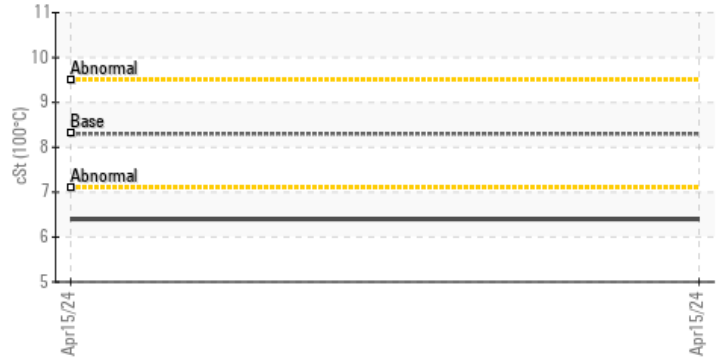


Copper (ppm)

Silicon (ppm)



▲ Viscosity @ 100°C



Base Number